

EH1000H-4 Nano/Nano⁺ 4/8 CH Embedded Hybrid DVR

User's Manual



FCC NOTICE (Class A)



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

Federal Communications Commission Statement

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

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

Class A ITE

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

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

European Community Compliance Statement (Class A)

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

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

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

Battery Safety Information

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

WARNING

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



<u>/</u>

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 REFERENCE ONLY.

Table of Contents

Chapter	1 Introduction	.1
1.1 Pa	ackage Content	. 1
1.1.1	EH1004H-4 Nano	. 1
1.1.2	EH1004H-4 Nano ⁺	. 1
1.1.3	EH1008H-4 Nano	. 2
1.1.4	EH1008H-4 Nano ⁺	. 2
1.1.5	Optional Accessories	. 3
1.2 Fr	ont Panel	. 3
1.2.1	EH1004H-4 Nano/EH1008H-4 Nano	. 3
1.2.2	EH1004H-4 Nano ⁺ /EH1008H-4 Nano ⁺	. 4
1.3 Ba	ack Panel	. 6
1.3.1	EH1004H-4 Nano/EH1004H-4 Nano ⁺	. 6
1.3.2	EH1008H-4 Nano/EH1008H-4 Nano ⁺	. 7
1.4 Se	etting Up the DVR Unit	. 8
1.4.1	Installing the Hard Disk	. 8
1.4.2	Connecting Devices	10
1.5 Se	ensor, Relay and RS485 pinhole allocation	13
1.5.1	Audio In/Out Pin Definition	13
1.5.2	Sensor Pin Definition	13
1.5.3	Relay Pin Definition	13
1.5.4	RS485 Pin Definition	14
1.6 Fa	amiliarizing the Remote Control Buttons	15
	2 Using the DVR Software	
2.1 Fi	rst Time Using the DVR Unit	17
2.1.2	Using the Virtual Keyboard	19
	amiliarizing the Buttons in Preview Mode	
2.2.1	Setting Up and Using the Emap	
2.2.2		
2.2.2		
2.2.2	2.2 Setup the IP PTZ Camera	25
2.2.3	Using Event Log Viewer	26
	Using POSViewer	
2.3 Fa	amiliarizing the Buttons in Playback Mode	28
2.3.1	To Cut and Save a Portion of the Recorded Video	31
2.3.2	To Bookmark a Video Section	
2.3.3	Using the Event Search	33
	3 Customizing the DVR System	
-	ystem Setup	
-	amera Setup	
3.2.1		

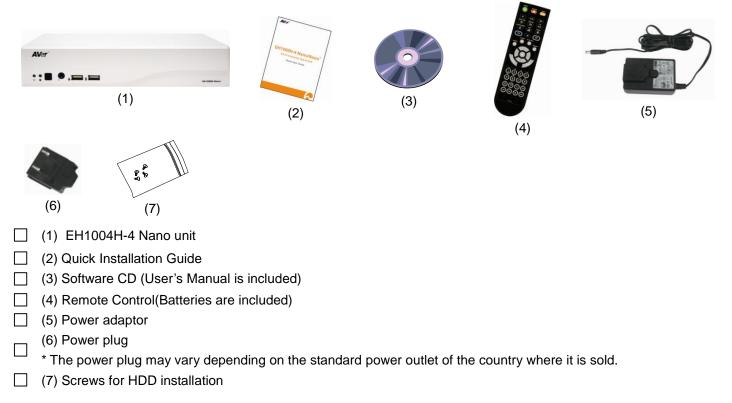
3.2.2	To Setup Analog Camera	
3.2.3	To Setup Camera from the Remote DVR	44
3.3 R	ecording Setup	45
3.3.1	Setup IP Camera Record Setting	45
3.3.2	Setup Analog Camera Record Setting	46
	etwork Setup	
	chedule Setting	
3.6 B	ackup Setup	
3.6.1	Using QPlayer to Playback Backup Video	
3.6.2	To Cut and Save the Portion of the Recorded Video	
3.6.3	To Search Using the Event Search	
3.6.4	To Search Using the Intelligent Search	
	ensor Setting	
	elay Setting	
	larm Setting	
	ser Setup	
-	4 Using the UPC to Playback Backup File	
	ecommended System Requirements	
	nstalling the USB Playback Console	
	amiliarizing the Buttons in USB Playback Console	
4.3.1	To Cut and Save the Portion of the Recorded Video	
4.3.2	Playback DVR Recorded File from Hard Disk	
4.3.3	Playback Backup File(*.dvr)	
4.3.4	To Backup Recorded File	
	o Search Using the Visual Search	
4.3.6	To Search Using the Event Search	
4.3.7	5 5	
-	5 iEnhance	
	o Use iStable	
-	6 Using the Remote Programs	
	amiliarizing the Buttons in PCViewer	
6.1.1	PCViewer Screen	
	PCViewer Control Panel	
	o Setup Remote System Setting	
6.1.3	, , , , , , , , , , , , , , , , , , , ,	
6.1.3	5	
6.1.3	5	
6.1.3	5	
6.1.3	5	
	amiliarizing the Buttons in Remote Console	
6.2.1	To Setup Remote Console Setting	
6.2.2	Familiarizing the Buttons in PTZ Camera Controller	
6.3 U	sing the Remote Playback	99

6.3.1 Familiarizing the Buttons in Local Playback	
6.3.1.1 To Cut and Save the Wanted Portion of the Recorded Video	102
6.3.2 Familiarizing the Buttons in RealTime Playback	103
6.3.3 Familiarizing the Buttons in Download and Playback	105
Chapter 7 Using Mobile Device to Access DVR Server	
7.1 Using PDAViewer to Access DVR Server	106
7.1.1 To Install PDAViewer thru ActiveSync	106
7.1.2 To Use the PDAViewer	107
7.1.3 To Playback in PDAViewer	109
7.2 Using JavaViewer to Access DVR Server	110
7.2.1 To install JavaViewer from the DVR Server	110
7.2.2 To Use the JavaViewer	110
Chapter 8 Using the Web Tools	
8.1 Remote iSetup	112
8.1.1 To Add DVR server	112
8.1.2 To Setup Remote System Setting	113
8.2 Remote iBackup	114
8.2.1 To back up the recoded data from the DVR server	114
Appendix A Registering Domain Name	117
Appendix B Network Service Port	118

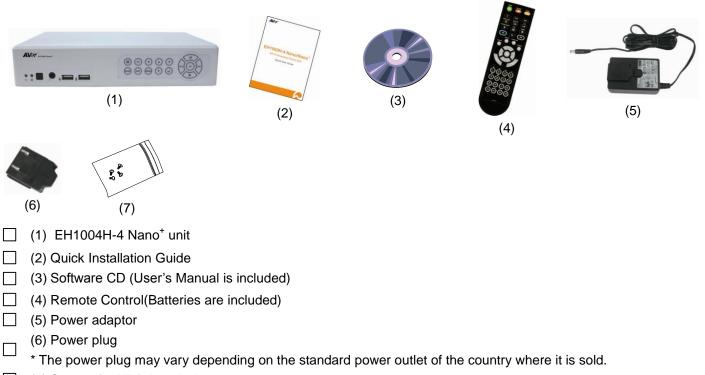
Chapter 1 Introduction

1.1 Package Content

1.1.1 EH1004H-4 Nano

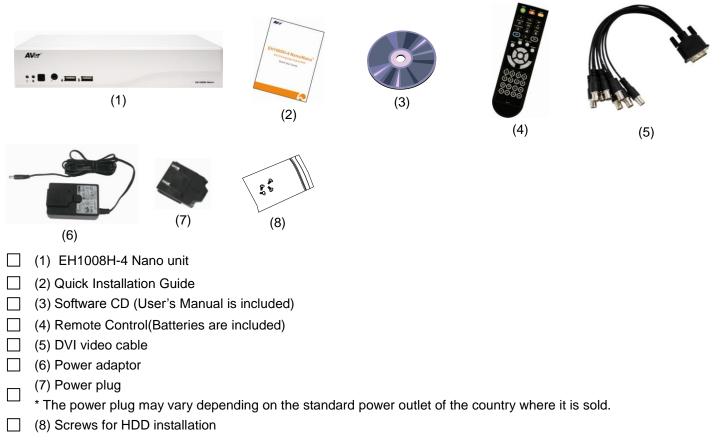


1.1.2 EH1004H-4 Nano⁺

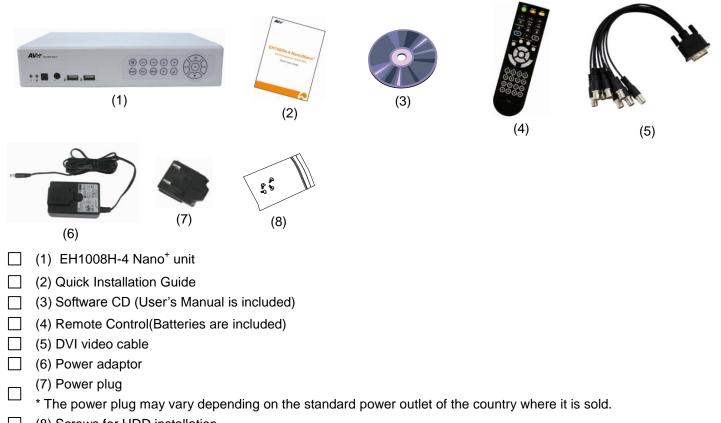


(7) Screws for HDD installation

1.1.3 EH1008H-4 Nano



1.1.4 EH1008H-4 Nano⁺

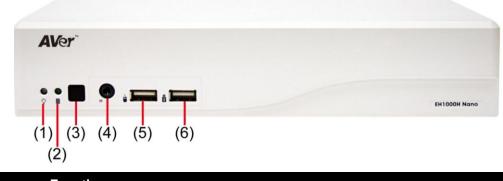


(8) Screws for HDD installation



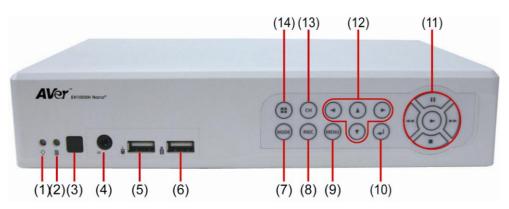
1.2 Front Panel

1.2.1 EH1004H-4 Nano/EH1008H-4 Nano



Name	Function	
(1) System Power indicator	System power status indicators. Indicate running state of system. Lights when the system is running.	
(2) Record indicator	When DVR system is recording, the light will keep flashing.	
(3) IR Sensor	Receive signal from the remote control to operate the DVR unit	
(4) IR Sensor port	For extended IR sensor cable(optional)	
(5) USB port(mouse)	For USB mouse connection.	
	For connecting USB device, ex: USB pen drive, external hard disk, mouseand so on.	
(6) USB port	The USB storage device must be in FAT32 format.	

1.2.2 EH1004H-4 Nano⁺/EH1008H-4 Nano⁺

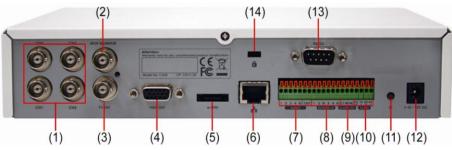


Name	Function		
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(5) USB port(mouse)	For USB mouse connection.		
	For connecting USB device, ex: USB pen drive, external hard disk, mouseand so on.		
(6) USB port	The USB storage device must be in FAT32 format.		
(7) MODE	Switch to playback mode. Press again can switch back to preview mode.		
(8) REC	Start to recording.		
(9) MENU	To call out setup menu.		
(10)	Press it to enter or make a selection.		
	Temporarily freeze the video playback.		
	Stop video playback. When user press stop button, the DVR will switch back to preview mode.		
	Wind back the playback video.		
	Fast play the video playback at the speed of 2x, 4x, 8x,16x, 32x, or 64x.		
	To play the recorded video.		

Name	Function	
	Move the mouse cursor to left.	
	Move the mouse cursor to right.	
(12)	Move the mouse cursor up.	
	Move the mouse cursor down.	
(13) CH	Switch a channel by channel.	
(14)	Switch to different screen display mode (single, 4-split screen, 9-split screen, and 7+1 split screen).	

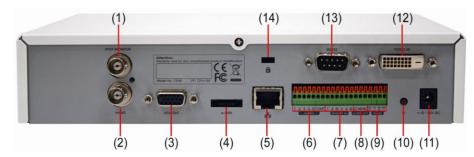
1.3 Back Panel

1.3.1 EH1004H-4 Nano/EH1004H-4 Nano⁺



Name Function (1) Video Input 1~4 Input the video camera signal (channel 1 ~ 4). (2) Spot Monitor Outputs the analog video signals to SPOT monitor when receive the alarm events. (3) TV Out Outputs the video signals to a TV monitor. (4) VGA Output Outputs the camera video signal to a LCD monitor. (5) eSATA port For connecting with eSATA RAID. (6) LAN Port Ethernet connection wit10/100Mbps. (7) Audio In/Audio Out Input/output audio signal to audio input/output device such as microphone or speaker. - Audio output: 1 channels - - Audio output to evice has its own power supply is necessary. (8) Sensor In Support up to 4 sensor devices. (9) Relay Out Support 1 relay device. (11) Power button Press it to power on the DVR unit. (12) 12V DC connector For connecting the power cord. (13) RS232 port For POS device connection.			
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 Audio input: 4 channels - Audio output: 1 channel The audio input and output device has its own power supply is necessary. (8) Sensor In Support up to 4 sensor devices. (9) Relay Out Support 1 relay device. (10) RS485 For PTZ camera connection (also see <u>Chapter 1.5</u>). (11) Power button Press it to power on the DVR unit. (12) 12V DC connector For connecting the power cord. (13) RS232 port For POS device connection. 	(6)	LAN Port	Ethernet connection wit10/100Mbps.
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(12)12V DC connectorFor connecting the power cord.(13)RS232 portFor POS device connection.	(10)	RS485	For PTZ camera connection (also see Chapter 1.5).
(13) RS232 port For POS device connection.	(11)	Power button	Press it to power on the DVR unit.
	(12)	12V DC connector	For connecting the power cord.
(14) Look hole Earlooking the DVP unit to avoid DVP unit hear taken	(13)	RS232 port	For POS device connection.
(14) Lock hole For locking the DVR unit to avoid DVR unit been taken.	(14)	Lock hole	For locking the DVR unit to avoid DVR unit been taken.

1.3.2 EH1008H-4 Nano/EH1008H-4 Nano⁺



Name		Function
(1)	Spot Monitor	Outputs the analog video signals to SPOT monitor when receive the alarm events.
(2)	TV Out	Outputs the video signals to a TV monitor.
(3)	VGA Output	Outputs the camera video signal to a LCD monitor.
(4)	eSATA port	For connecting with eSATA RAID.
(5)	LAN Port	Ethernet connection wit10/100Mbps.
(6)	Audio In/Audio Out	 Input/output audio signal to audio input/output device such as microphone or speaker. Audio input:4 channels Audio output: 1 channel
Ĵ	The audio input an	d output device has its own power supply is necessary.
(7)	The audio input an Sensor In	d output device has its own power supply is necessary. Support up to 4 sensor devices.
(7) (8)		
	Sensor In	Support up to 4 sensor devices.
(8)	Sensor In Relay Out RS485	Support up to 4 sensor devices. Support 1 relay device.
(8)	Sensor In Relay Out RS485 Power button	Support up to 4 sensor devices. Support 1 relay device. For PTZ camera connection (also see <u>Chapter 1.5</u>).
(8) (9) (10)	Sensor In Relay Out RS485 Power button 12V DC connector	Support up to 4 sensor devices. Support 1 relay device. For PTZ camera connection (also see <u>Chapter 1.5</u>). Press it to power on the DVR unit.
(8) (9) (10) (11) (12)	Sensor In Relay Out RS485 Power button 12V DC connector	Support up to 4 sensor devices. Support 1 relay device. For PTZ camera connection (also see <u>Chapter 1.5</u>). Press it to power on the DVR unit. For connecting the power cord.

Setting Up the DVR Unit 1.4

Installing the Hard Disk 1.4.1



- For hard disk spec, please referring to http://surveillance.aver.com/download-center \rightarrow Embedded Hybrid DVR/NVR → EH1004H-4 Nano/EH1008H-4 Nano → Hardware Recommendations; click Search button.
- The external USB hard disk only supports on file backup. Please **do not** use the external USB hard disk for recording purpose.

The "compatible hard disks" indicated in the above recommendation list only means that these commercially available hard disks were tested with AVerTM products and functioned well under normal operation conditions. AVer[™] 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 AVer[™] 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 AVer[™] 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.

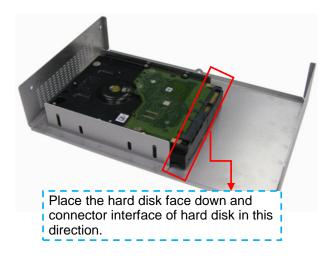
User can install 1 SATA hard disks inside the DVR unit.

Follow the illustrated instructions below to install the hard disk:

1. Loosen all screws(2 sides and rear side)



Turn the cover over and place the SATA hard disk (face 4. Screw the hard disk(both side) 3. down) inside the HDD holder.



2. Push the cover backward and lift. The cover is a little bit tight, please be carefully the hands.



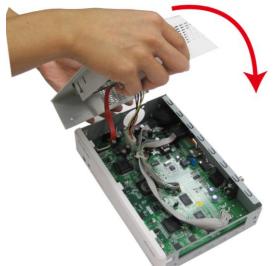


5. Hold the cover and connect the power cable and SATA 6. And then, turn the cover over carefully. cable to the hard disk.



7. Hold the cover parallel with DVR unit and put the cover 8. Finally, Push the cover forward and secure the cover back to the DVR unit and be carefully the hard disk that inside the cover.







1.4.2 Connecting Devices



1

Pen drive and external hard disk must be FAT32 format.

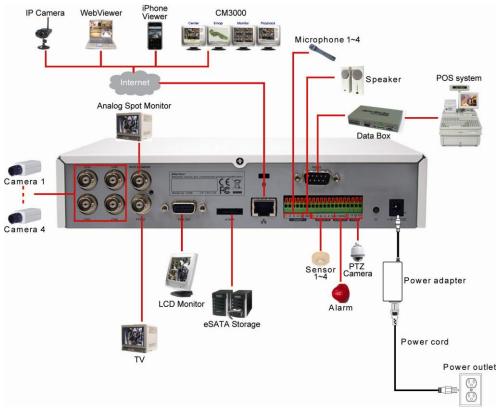
All connected devices have its own power supply is necessary.
1.3 MP with H.264/MPEG4/ MJPEG on the first 4 channels and 2.3MP with MJPEG on the 1st channel for IP cam connection.

EH1004H-4 Nano/EH1004H-4 Nano*

EH1004H-4 Nano supports both Analog and IP camera in 4 channels.

The back panel of the DVR unit, user can connect up to 4 cameras in combination of analog and IP camera. The DVR unit also can connect 4 sensor devices, 1 alarm devices, and output video to a LCD monitor.

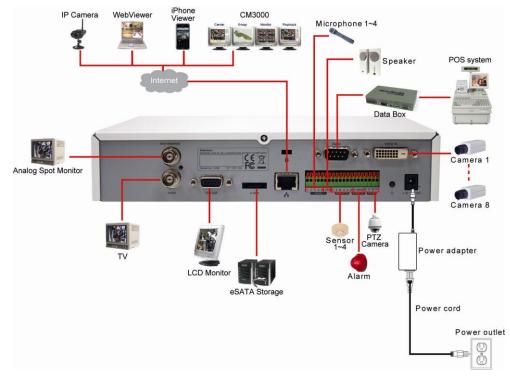
Follow the illustration below to make the connection:



1

EH1008H-4 Nano only supports first 4 channels for IP camera connection.

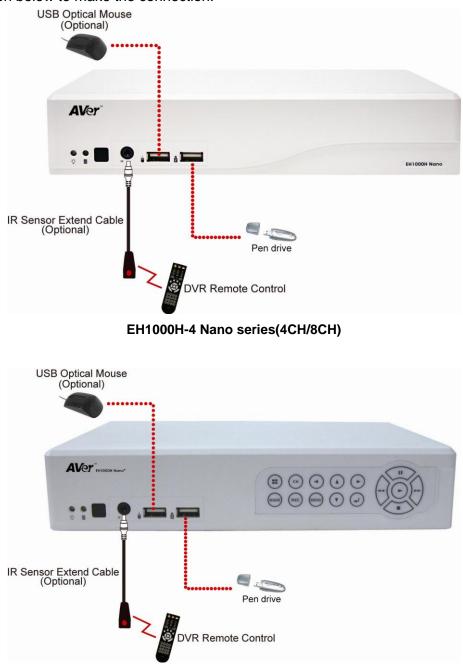
The back panel of the DVR unit, user can connect up to 4 cameras in combination of analog and IP camera. The DVR unit also can connect 4 sensor devices, 1 alarm devices, and output video to a LCD monitor. Follow the illustration below to make the connection:



■ EH1000H-4 Nano/EH1000H-4 Nano*

For backup recorded video, plugging the pen drive or external hard disk through USB port that are located at front panel of DVR unit, and then, use the bundled software enables user to transfer, playback and segment the video.

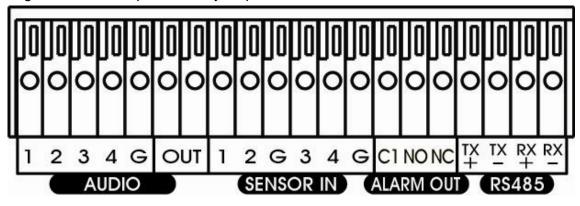
Follow the illustration below to make the connection:



EH1000H-4 Nano⁺ series(4CH/8CH)

1.5 Sensor, Relay and RS485 pinhole allocation

The Sensor and Alarm enable you to connect 4 sensor inputs, 1 relay outputs and PTZ cameras. Just connect the external sensor, relay, and PTZ camera pin directly to the pinhole. Check the table below and locate which pinhole is assigned to sensor input and relay output.



1.5.1 Audio In/Out Pin Definition

Pin#	Definition
1	Audio in signal
2	Audio in signal
3	Audio in signal
4	Audio in signal
G	Audio ground single
OUT	Audio out signal

1.5.2 Sensor Pin Definition

Sensor Pin #	Definition
1	Sensor 1 signal
2	Sensor 2 signal
G	Sensor ground
3	Sensor 3 signal
4	Sensor 4 signal
G	Sensor ground

1.5.3 Relay Pin Definition

Relay Pin #	Definition
C1	Relay Common 1
NO	Relay Normal Open
NC	Relay Normal Close

1.5.4 RS485 Pin Definition

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

Pin #	DVR site	PTZ site
TX+	RS485 TX+ signal	RS485 RX+ signal
TX-	RS485 TX- signal	RS485 RX- signal
RX+	RS485 RX+ signal	RS485 TX+ signal
RX-	RS485 RX- signal	RS485 TX- signal



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

1.6 Familiarizing the Remote Control Buttons

Use the Remote control to operate the DVR unit.

(2)	Name	Function
	(1) 🔁	Switch to playback mode
	(2)	Start/stop recording video. To stop recording, the authentication password is required.
	(3)	To call out system setup menu.
(7) (8) ALARM RESET PTZ E-MAP (9)	(4)	To rewind the recorded video.
(10) (11) (12)	(5)	To start playback.
		To pause playback.
(21) FOCUS+ AUTO PAN (21) FOCUS- PRESET (14)	(6)	To playback video at faster speed (1x ~ 32x).
(20) (15)	(7) 💋	To select the time and date of playback file.
	(8) А-В	Set a playing recorded video from A point to B point segment and repeat playing on surveillance screen
(19) (17)	(9)	To backup recorded video file to USB pen drive.
-20 00-	(10) 🔅	To reset alarm status.
	(11) 🚯	Switch to Emap mode.
	(12)	Call out PTZ control panel. Press e again will close the PTZ control panel.
Name Function		
	to enable	FN modes (The word " Fn+ " will show up in the left bottom
corner on	screen). To ex	kit FN modes, press FN again.
FN +	: Switc	h to single screen display mode
FN +	: Switch	h to QUAD display mode
FN +	: Switch	h to 9 spilt screen display mode
(13) FN +	: Switc	h to one single and 7 + 1 spilt screen display mode
FN +	: Enabl	e/disable auto scan
FN +	: Switch	h to full screen
The	e (FN) + (4, 6, 9, 16 don't have any functions.

Name	Function
(14)	To enable auto pan function.
(15)	To move the PTZ camera to the preset position. Press 🕐 button and the "PS+" will
	show up on screen. And then, press preset position number button (🛄 ~ 偱).
	To move PTZ camera to left.
(16) <	To move the mouse cursor to left.
	To move PTZ camera to right.
∇	To move the mouse cursor to right.
	To move PTZ camera lens up To move the mouse cursor up.
(16) < - >	To move PTZ camera lens down
∇	To move the mouse cursor down.
,	Confirm or make a selection
• • • • • • • • • • • • • • • • • • •	Speed + : To speed up movement of PTZ camera lens
(17) SPEED	Speed - :To speed down movement of PTZ camera lens
	~ 🕑 as number 1, 2, 3, 4, 5, 6, 7, 8, 9, and 0.
	Channel camera selection number in playback and preview mode.
	+ C As a preset position in PTZ control mode.
	FN + + •
	Zoom + : To zoom in view of PTZ camera
(19) ZOOM	Zoom - :To zoom out view of PTZ camera
(20) 😑	To focus out PTZ camera lens
(21) 🔁	To focus in PTZ camera lens

Chapter 2 Using the DVR Software 2.1 First Time Using the DVR Unit

- 1. Connect the mouse to DVR unit (through USB port).
- 2. Connect all necessary external devices.



DVR unit doesn't supply the power to connected external devices.

- 3. Plug the power to turn on the DVR unit.
- 4. Please wait for a while until start up process is completed. And then, the preview screen will show up on surveillance screen.



- 5. **Format hard disk:** If the hard disk is first time installed in the DVR unit, please format the hard disk. Following the below steps to format the hard disk.
 - Before formatting hard disk, please stop recording.
 - While formatting hard disk, the CPU usage will be near to 100% and might slow down the DVR system response.
 - a. Click **Setup** and enter the password (If this is the first time, enter the default password [admin]. The default ID [admin]).
 - b. Click System \rightarrow Add

Disk Management		
Disk Name SATA-0:WDC	Capacity 2 TB	Type EXT3
	Type EXT3	Format
		OK Cancel

- c. Select the hard disk from list.
- d. Click Format button and click Start to begin formatting
- e. When formatting is done, click **OK**.
- 6. **Adjust time and date:** Setup the DVR system date and time in order to have correct recording time and date. Following the below steps to setup date and time:
 - a. Click **Setup** and enter the password (If this is the first time, enter the default password [**admin**]. The default ID [**admin**]).
 - b. Select System.
 - c. In Date and Time Setting, click Setting button of System Date and Time.
 - d. Select the Year and Month by click arrow button, click on the date to select the date. And adjust the time, and then, click **OK**.
- 7. Connecting the cameras: DVR supports IP and Analog camera.
 - Analog camera
 - a. Connect the analog camera video cable to video cable.
 - b. Click Setup → Camera
 - c. Select camera channel and mark Enable to enable the channel.
 - d. Select Input as Analog Camera.
 - e. In **Camera** section, mark **Display** to allow the live video of camera to display on surveillance screen. And then, enter the **Name** and **Description** of the channel. Mark **Enable Audio** will allow recording the sound that received from selected audio input channel (audio input channel located on back panel of DVR). For example: user has enabled audio and select audio input channel 1 on the camera 4. Therefore, DVR will record the video of camera 4 and sound that received from audio input channel 1 together. While playback, user will hear sound that received by audio input channel 1 on camera 4.
 - f. Adjust the bright, contrast, hue, and saturation of the camera.
 - g. Click **OK**.
 - IP camera
 - EH1008H-4 Nano/Nano⁺ only supports first 4 channels (CH1~4) for IP camera.
 - EH1004H-4 Nano/Nano⁺ supports both analog and IP camera in 4 channels.
 - 1.3 MP with H.264/MPEG4/ MJPEG on the first 4 channels and 2.3MP with MJPEG on the 1st channel for IP cam connection.
 - a. Click Setup \rightarrow Camera.

Camera Setting		
ALL		
Enable		
_ Input		
IP Camera C	Analog Camera	camera1
O Remote DVR		
Camera Display		
Enable Audio		
Name ca	amera1	
Description		
P Camera Informati	on	
	IP Setting Details	
	Use IP Camera Motion	
Protocol		
Model		
Video Format		
IP:Port		
Channel		
		OK Cancel Default

b. Select camera channel (1~4) and mark **Enable** to enable the channel.

- c. Select Input as IP Camera.
- d. In **Camera** section, mark **Display** to allow the live video of camera to display on surveillance screen. Then, enter the **Name** and **Description** of the channel.
- e. In Camera Information section, click IP Setting for detail setting.

		Auto Search	IP Camera Information- V1.103H-005	
Protoco	l	TRUEN		
Model		TCAM-270		
Video Fo	ormat	H264		
Channel		1		
IP Camera	Site	192.168.0.187	-24	: 80
OURL				
http://				
Authent	ication			
ID	admin			
Password	****			

- f. In IP Camera Setting window, click Protocol radio button, and then, select Protocol, Mode, and Video Format. User also can click Auto Search button to find the IP cameras that can be detected on your LAN network.
- g. Enter IP address in IP Camera site column or enter the URL of IP camera.
- h. Enable Authentication and enter ID and password if IP camera's access authority is required.
- i. Click **OK** to save the setting.
- j. When the IP camera has connected, user should see the camera information of **Protocol**, **Model**, **Video Format**, **IP port**, and **Channel**.
- k. To connect another IP camera, follow the above steps.

2.1.2 Using the Virtual Keyboard

User can use the Virtual Keyboard when the keyboard is not available. Just click **a** or right-click screen to call out the virtual keyboard. For uppercase, click **Caps** button. To exit, click **Esc**.

Esc	1 2	3	4 5	6	7 8	9	0 -	= ←
· q	w	e r	t	y u	i	o p	[] \
Caps a	a s	d	f g	h	j k		; ['	Enter
Shift	z	хс	v	b n	m	, .	/	

2.2 Familiarizing the Buttons in Preview Mode

	(17) (18)	Image: Contract of the state of the sta
	(1)—() EH1	0081 -4 Nano
		(2) (3) (4) (5) (6) (7) (8)
Nan	ne	Function
(1)	Logout	 Reboot: To restart the DVR system. It is required to enter the password Power Off: To shut down the DVR system. It is required to enter the password Login: Using different ID to login to DVR system. Cancel: To return to DVR application.
(2)	Split Screen Mode	Select from four (4) different split screen types to view all the camera, or one camera over the other or alongside on a single screen. It also allows you to switch and view different camera number.
0	Right-click or	re in single screen mode, Right click and Drag a square on the area you want to enlarge. In screen again, the screen view will back to normal view. The in full screen mode, partial enlarges does not support.
(3)	Record	Start/stop video recording.
(3)	EMap	Display the map in each area, and the location of camera/ sensor/ relay and the warning (see
יד)		also <u>Chapter 2.2.1</u>).
(5)	Network	Enable/disable remote system access. This feature allows you to access DVR server from a remote location via internet connection. The default is disabled.
(6)	Setup	Configure the system settings. (see also Chapter 3)
(7)	PTZ	Access PTZ control panel. (see also Chapter 2.2.2)
(8)	Preview	Switch to Preview mode. This allows you to view live camera display.
(9)	Playback	Switch to Playback mode. This allows you to view the recorded video file. (see also <u>Chapter</u> 2.3)

Name	Function
(10) Status bar	Display the current date, time, hard disk free space and temperature of unit.
(11) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode click the camera ID number to switch and view other camera.
(12) Snapshot	Capture and save the screen shot in *.jpg format.
Please plug t	he USB pen drive to DVR server before press Snapshot button.
(13) Event log	Show the record of activities that take place in the system. (see also Chapter 2.2.3)
(14) AutoScan	Start/Stop video screen cycle switch.
(15) Full screen	Stew in full screen. To return, press the right button of the mouse or ESC on the keyboard of the arrow icon.
	When you switch to full screen in multiple-screen mode, Left click to toggle to only displa one of the video in the multiple-screen mode or all.
(16) Alarm	Alert and display warning info.
(17) Turbo	 To improve the smoothness of live video. The default is enabled(), but in followin situation: The channel is IPCam and is in 1-split screen. The channel is remote DVR and is in 1-split screen. Turbo function setup is in depended for each channel. To turn off turbo function(), clic turbo button. [Note] In multiple split screen mode, the turbo button is invisible.
	Image: state in the

(18) Virtual Keyboard Click to enable virtual keyboard.

2.2.1 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.

To Set Up the Emap

- 1. Click Emap.
- 2. When the Emap screen appears, click the area number (1 to 8 buttons) on where you want to insert the map.

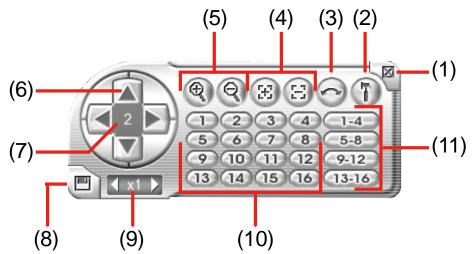


- 3. Click **Load Map** to insert the map. When the open dialog box appears, locate and select the map and click **Open**.
- 4. When the inserted map appears on the Emap screen, click Edit. You may now drag the camera, sensor, and relay icons to its place on the map. Icons on the map can be relocated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

To Use the Emap

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

2.2.2 Familiarizing the Buttons in PTZ Camera Controller



Name	Function
(1) Close	Exit PTZ camera controller.
(2) Setup	Configure PTZ cameras.(see also Chapter 2.2.2.1 and Chapter 2.2.2.2)
(3) AutoPan	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(4) Focus +/-	Adjust the focus manually to produce clear image.
(5) Zoom +/-	Zoom in and out the image.
(6) Direction buttons	Adjust and position the focal point of the PTZ camera.
(7) Camera ID pane	Display the PTZ camera number that is being operated.
(8) Save Camera preset position	Save the PTZ camera preset position number. Select the camera and click the preset position number and save it.
(9) Camera lens speed controller	Adjust the moving speed of the PTZ camera lens.
(10) Camera preset position number	Move the PTZ camera to the preset point.
(11) Group AutoPan	Select to automatically operate PTZ camera in group.

2.2.2.1 Setup the Analog PTZ Camera

- 1. Select the channel of analog PTZ camera on Preview UI.
- 2. Click **PTZ** button from preview UI. And then, the PTZ control panel will show up on screen.
- 3. In the PTZ control panel, click **Setup** (see also <u>Chapter 2.2.2</u>).
- 4. When the PTZ Setup dialog box appears, select the camera number and mark the **Use PTZ** check box to enable PTZ setting.

PTZ Setup	
Select Camera 1 Use PTZ Analog PTZ Connection Settings COM Port RS485 Save ID 0 Baud Rate Default Protocol 1:Pelco-D	
Preset Settings Preset Number 1 Save DwellTime 5 Show Preset Name Preset Name Restore AutoPan Time: 10 seconds	Use to adjust the lens of PTZ camera for preset position setting.

- 5. In the Connection Settings section, fill in the following selections. Then, click **Save** to keep the settings.
 - **COMPort:** The connecting port is fixed and can't be changed. The default is RS485 port.
 - **ID:** Assign an ID number for the PTZ camera.
 - Baud Rate: Please refer to the user's manual of the PTZ camera to make sure the baud rate.
 - **Protocol:** Please refer to the user's manual of the PTZ camera to make sure what protocol is using.
- 6. In the Preset Setting section, use the control panel to adjust the position of the PTZ camera and select the preset number to assign a number for the PTZ camera current position. Set the DwellTime (1-60 sec) for how long the PTZ camera stays in that position before it moves to the next one. Click Save to keep the Preset Setting settings.



The gray out functions mean DVR doesn't support.

- 7. Repeat step 4 and 5, if you want to save another PTZ camera position.
- 8. **Restore AutoPan Time:** set a time period for restoring auto path function after the PTZ camera has been moved manually. Mark the check box and set the time period in second.
- 9. After finished all configurations, click **OK** to exit. Click **Cancel** will exit and without saving the settings.

2.2.2.2 Setup the IP PTZ Camera

When IP PTZ camera has successful connected with the DVR system, user can use the PTZ function directly without any configuration. To make connection of IP PTZ camera, please refer to <u>Chapter 3.2.1</u>. In PTZ control panel, user can setup the preset position of the camera. The number of preset positions is depending on the IP PTZ camera has supported. For example: A brand of IP PTZ camera only supports 4 preset positions. Therefore, user only can setup 4 preset positions. User can refer to the user's manual of the IP PTZ camera to make sure the number of the preset positions has supported.

Please follow the below steps to configure the preset position.



The gray out functions mean $\ensuremath{\mathsf{DVR}}$ doesn't support.

- 1. In preview mode, select the channel that is an IP PTZ camera channel.
- 2. Click **PTZ** button on preview UI and PTZ control panel will show up.
- 3. In the PTZ control panel, using the arrow button to adjust the position of IP PTZ camera.
- 4. And then, click **Setup** (see also <u>Chapter 2.2.2</u>). The Preset Settings window will show.

Preset Settin	gs	
Preset Number	01 💙	Save
DwellTime	4 🗸	
Show Preset Nar	ne	
Preset Name		
Restore AutoPar	n Time: 10	seconds
		OK Cancel

- 5. Select the **Preset Number** to assign a number as the PTZ camera current position. And then, click **Save** to save the setting.
- 6. Set the **DwellTime** for how long the PTZ camera stays in that position before it moves to the next one.
- 7. Repeat step 3 to 6, if you want to save another preset position.
- 8. **Restore AutoPan Time:** set a time period for restoring auto path function after the PTZ camera has been moved manually. Mark the check box and set the time period in second.
- 9. Click **OK** to complete the setting.

Using Event Log Viewer 2.2.3

Show the record of activities that take place in the system

Event Log View	er					Display the current pag of log list.
	PERATIO ETWORK			Date 2010/11/15 Refresh	Page.	
Time	Camera	Туре	F -10-1	Event		-
2010/11/15 09:49:20 2010/11/15 10:09:22	-	OPERATION OPERATION	Enter Setup Enter playback			
						0
						\bigcirc
	0		POS	Viewer		
					Close	

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. Click 🝚 button to go next page and click 室 button to go to the last page. To go to previous page, click

A button. Click button will back to the first page. In Page column, it displays the current page number.

- 5. To exit the event log viewer window, click **Close** button.
- 6. To view POS event log, click POSViewer bar to call out the POSViewer window (see also Chapter 2.2.3.1).

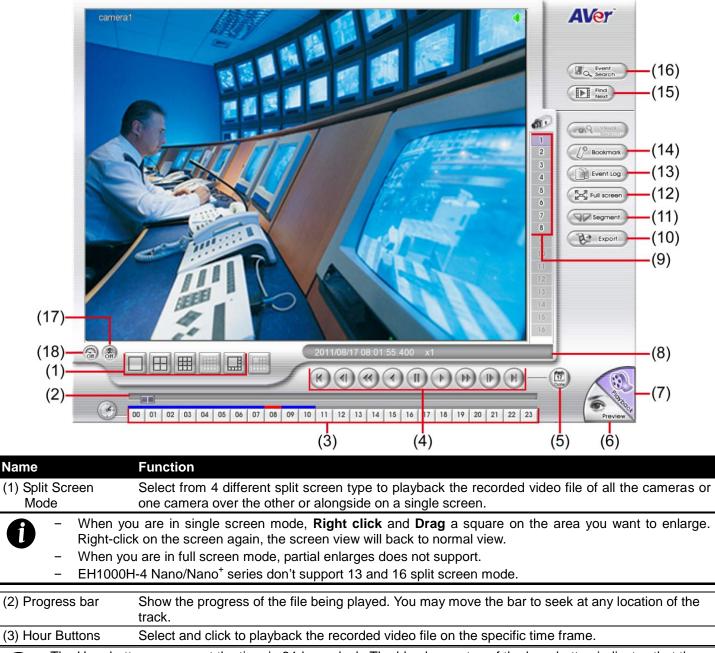
2.2.3.1 Using POSViewer

To clear all setting, click **Reset** button. Click **Close** button will exit POSViewer window.

	POSV	liewer]	
(1)—	Search Condition		Search Result			Page.	Page.		
(')		Path: SATA-0:ST3500410SV	Channel	Time	Data	1			
(2)—	After: Before:	2011/04/18 00:00:00					۲	-(5)	
(3)—	Channe Channe All 1								
(4)—	9 Search String:	10 11 12 13 14 15 16 String Match whole word exactly Reset Search					Ð		
Name		Function					Close		
(1) POSDB	Path	The storage path for POS eve POSDB Path	nt log. Clic	k Setting	o change the stor	age path.			
		Save path SATA-0:ST31000340SV							
		ОК	Cance						
(2) Before/A	(2) Before/After Set a time period before and af		after of POS	S event log					
(3) Channel		Select the POS event log of channel							
(4) Search	String	Enter specific key word or word string to search the POS event log. Mark the " Match whole word exactly " box if wants to find exactly key word or word string of POS event log. Click Search button to start searching.							
(5) Search	Result	Display the POS event log of search result. Click 🕤 button to go next page and click 🖃							
		button to go to the last page. T				on. Click	5 but	ton will	
		back to the first page. In Page	column, it	displays th	ne current page nu	ımber.			

2.3 Familiarizing the Buttons in Playback Mode

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



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

 (4) Playback Control Buttons
 From left to right order: Begin: Move at the beginning of the recorded video file. Previous: Go back to the previous frame. Slower: Play the recorded video file at the reduce speed from 64x, 32x, 16x, 8x, 4x, 2x, 1x, 1/2X, 1/4X.

Rewind: Wind back the recorded video file.

- Pause: Briefly stop playing the recorded video file.
 - Play: Play the recorded video file.
 - Faster: Play the recorded video file at the speed of 2x, 4x, 8x, 16x, 32x or 64x.
 - 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.					
camera ID. 7	s from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 08 represent the The blue colored column indicates that there is a recorded video file on that period of time. While th column indicates on where to start playing the recorded video file.					
(6) Preview	Switch to Preview mode.					
(7) Playback	Switch to Playback mode. This allows you to view the recorded video file.					
(8) Status bar	Display the recorded date, time and play speed.					
(9) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.					
(10) Export	 Export includes Snapshot, Output Video Clip, and Backup function. Snapshot: Capture and save the screen shot either in *.jpg format. Output Video Clip: Save the segmented file in *.dvr format to USB pen drive (see also <u>Chapter 2.3.1</u>). Backup: Save the playback file to USB device or DVD-ROM disk (see also <u>Chapter 3.6</u>). 					
Please plug Backup).	the USB pen drive to DVR server before execute Export function (Snapshot, Output Video Clip, an					
(11) Segment	Keep a portion of the recorded video (see also Chapter 2.3.1).					
(12) Full screen	View in full screen. To return, press the right button of the mouse or ESC on the keyboard or clic the arrow icon.					
(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 <u>Chapter 2.3.2</u>).					
(15) Find Next	Search for the next event. 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 <u>Chapter 2.3.3</u>)					
(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.					

Function

_

_

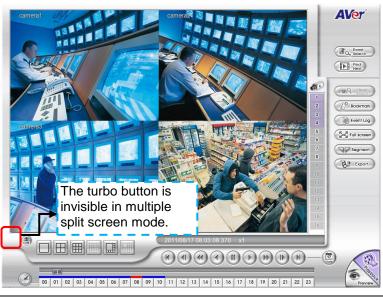
(18) Turbo

To improve the smoothness of live video. The default is enabled (), but in following situation:

- The channel is IPCam and is in 1-split screen.
 - The channel is remote DVR and is in 1-split screen.
 - The channel is analog camera, in 1-split screen, and decoding way is software decode

Turbo function setup is in depended for each channel. To turn off turbo function ((), click turbo button.

[Note] In multiple split screen mode, the turbo button is invisible.



2.3.1 To Cut and Save a 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.

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

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 button and select Output Video Clip to save the wanted portion. User can rename the File name. Mark "Include Player when backup" option will include a Qplayer application in backup file for palyback backup video clip later on. Mark "Add watermark when backup" option to have watermark protection on backup file and user can have watermark exam on Qplayer application.

Output V	ideo Clip	
Save path	USB-1:U3	
File name	2010_11_15_17_0_6	Save
Туре	DVR Files (*.dvr)	Cancel
Include F	Player when backup	
Add wate	ermark when backup	

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

2.3.2 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. Click Add button, the Bookmark Editor dialog will show up. Enter the name or short description in Mark column. And then, click OK to complete a bookmark.
 - 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.

Ti	me	Mark		Available	(
					(
	Bookm	ark Editor			
	Time	2010 08/31 1	6:45:54		-
	Mark]	
		ОК	Cancel]	-
					(
					(
Add	Edit	Delete	Delete A	Exi	

2.3.3 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 **EXERCISE**.
- 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.



The DVR system will automatically set the date of **End Time** at 3 days later of **Begin Time**. 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.

Event Se Searching C	earch Settin	g
Sensor	Motion	Video Loss
-Searching D	uration	
Begin Time	2010/08/31	P.M. 05:28:41
End Time	2010/08/31	P.M. 05:28:41
Searching In	terval 3 🥄	Seconds
	ОК	Cancel

Chapter 3 Customizing the DVR System

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



3.1 System Setup

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

torage Path	
Disk Name Free Space Capacity Status	Miscellaneous Playback Mode Instant Playback V
SATA-0:ST3250312CS 208.1 GB 228.3 GB Normal	✓ Playback with key frame only in 4-split screen
	Enable Intelligent Streaming of IP camera ?
	Date Format mm/dd/yyyy
	AutoScan Period 3 V Sec.
	Activate CPU meter after system boot up
Add Delete	CPU Meter
Delete recorded data after: 7 Days	
Delete event and alarm log after: 30 Days	Auto Login after system boot up
✓ Overwrite Enable	Auto Record after system boot up
ystem Language	Auto start Network after system boot up
Language English	Default User admin 💙
	Date and Time Setting
ideo Standard	System Date and Time 04/07/2011 11:30:29 Setting
NTSC O PAL Setting	Daylight Saving Time Setting
Configuration	Firmware
Import Export Connect Adjust	Product Version H8.03.02.00.00a Update
	IPCam Module 1.0.0.99 Update
pot Monitor	
Autoscan 🔽 All	
1 🔽 2 🗸 3 🗸 4 🔽 5 🔽 6 🔽 7 🔽 8	
9 10 11 12 13 14 15 16	
lote: Spot Monitors support analog channels only	
	OK Cancel Default

(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 click **Format** button.



- Before formatting hard disk, please stop all operations on DVR system.

- While formatting hard disk, the CPU usage will be near to 100% and might slow down the DVR system response.

Disk Management		
Disk Name SATA-0:WDC	Capacity 2 TB	Type EXT3
	Type EXT3	Format
		OK Cancel

(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) Language

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

(6) Video Standard

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

(7) Configuration

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



Please plug the USB pen drive to DVR server before **Import** or **Export** the configuration from or to USB pen drive.

(8) Spot Monitor

Select the camera user wants to display on spot monitor or select All for all cameras. Mark Autoscan to enable display to take turns automatically.

(9) 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.
- Select Setup \rightarrow System \rightarrow Touch Monitor \rightarrow Adjust. 3.
- 4. The adjusting window will show up.

Please touch the cross points one by one.

Warning: This window will be closed automatically in 3 minutes.

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.

(10) POS

đ

POS and Mask function cannot be enabled at the same time.

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

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

Name	Port	Channel
Numo	1 OIT	ondimo
Add	Delete M	lodify

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

	iPOS Mapping
	POS
(1)—	Name: POS 1
(2)—	Protocol: General
(3)—	Skip first 0 🛟 line(s)
(4)—	Font Color
(5)—	Port Setting
(-)	Local COM1 V
	Baud Rate COM1 COM2
(6)—	Map to Channel
()	Max 4 Channels
	9 10 11 12 13 14 15 16
(7)—	Text Filter
(,,)	1. 5.
	26
	3. 7.
	4. 8.
	OK Cancel

- (1) Name: Enter a name to identify the POS.
- (2) Protocol: Select the protocol.
- (3) Skip first: Set the number of lines you want to be removed.
- (4) Font Color: Select the text color of the POS data.
- (5) Port Setting : Select the Local(Com port) where it is connected and Baud Rate. If users just need to connect to one POS device, they can connect AVer[™] USB2RS232 Box to the com port of EH1000H-4 Nano/Nano⁺ DVR, and select COM 1. If users need to connect to 2nd POS device, please connect AVer[™] USB2RS232 Box to the front USB port, then connect to AVer[™] Data Box to the port 1 of AVer[™] USB2RS232 Box, and select COM 2.
- (6) Map to Channel: Select to which camera number to display the transaction text.
- (7) Text Filter: Enter the word you want to be removed.
- (11) 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
 - Playback with key frame only in 4-split screen: Enable to only playback key frame when in 4-split screen playback mode.
 - Enable Intelligent Streaming of IP camera: The DVR now supports 2 streaming in AVerTM SF1311H IP camera series; 1st streaming (recording streaming) and 2nd streaming; in preview mode and remote site. When user has enabled intelligent streaming function, the IP camera will be used 1st streaming (recording streaming) in *single* screen of preview mode. The recording streaming frame rate value is depended on the setting that user has setup in advanced setting of IP camera (see also <u>Detail</u> of (5) IP camera information in <u>Chapter 3.2.1</u>). If IP camera is in *split* screen mode, the 2nd streaming will be used and the frame rate is 15fps in CIF resolution. For remote application (PCViewer or Remote Console), the 1st streaming will be used when video quality is set to high and 2nd streaming will be used when video quality is set to normal.

Click ? mark will show up the intelligent streaming information dialog box.

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.

Activate CPU meter after system boot up

Mark to enable the CPU usage status display on the screen automatically when system boot up. User can manually to enable by clicking the **CPU Meter** button.

etting

Storage Path		Miscellaneous	
Disk Name F	Free Space Capacity Status	Playback Mode Instant Playback 🗸	
SATA-0:ST3250312CS 2	208.1 GB 228.3 GB Normal	Playback with key frame only in 4-split screen	
		Enable Intelligent Streaming of IP camera ?	
		Date Format mm/dd/yyyy	
		AutoScan Period 3 Sec. CPU: 43.9 %	CPU usage status.
		Activate CPU meter after system boot up	Click X to close the
	Add Delete	CPU Meter	
		CPO Meter	display.
Delete recorded data after:	7 Days	Login	
Delete event and alarm log after:	30 Days	Auto Login after system boot up	
Verwrite Enable		Auto Record after system boot up	
-System Language		Auto start Network after system boot up	
Language English		Default User admin V	
	•	Date and Time Setting	
Video Standard	POS	System Date and Time 04/07/2011 11:30:29 Setting	
⊙ NTSC ○ PAL	Setting	Daylight Saving Time Setting	
		Firmware	
Configuration Export	Touch Monitor Connect Adjust	Product Version H8.03.02.00.00a Update	
		IPCam Module 1.0.0.99 Update	
Spot Monitor			
Autoscan All			
✓ 1 ✓ 2 ✓ 3 ✓ 4	✓ 5 ✓ 6 ✓ 7 ✓ 8		
9 10 11 12	13 14 15 16		
Note: Spot Monitors support analog c	hannels only		
tions, oper mentors support analog e	and a ready	OK Cancel Default	

(12) 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.

(13) Date and Time Setting

Mark Daylight Saving Time to enable daylight saving function.

- **Daylight Saving Time:** Click **Setting** to setup **Start** and **End Date/Time**. User can depends on daylight saving time mode in your country to select **Mode 1** or **Mode 2**. Mode 1 is setting up specific start date/time and end date/time. Mode 2 is setting up fixed day of month in every year for start and end date/time.

Mode 1 Start Date/Time	2011/04/07 11:20 Setting
End Date/Time	2011/04/07 11:20 Setting
Daylight Bias	00 🗘 : 00 🌩
⊖ Mode 2 Start Date/Time	May / Last / Sun. / 01 /
End Date/Time	October
Daylight Bias	00 🗘 hours

- **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.

(14) Firmware

- **Product Version:** Upgrading the firmware of DVR system.
 - 1. Save the firmware on root directory of USB pen drive. And then, plug USB pen drive to DVR server.
 - 2. Click Update button, a Firmware Upgrade windows will show up.

Firmware Update		
⊙ Update from USB device	N/A	
Current firmware version:	H8.01.01.00.12	
New firmware version:	H8.01.01.00.12	
	ОК	Cancel

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

IPCam Module Firmware	e Update	
⊙ Update from USB device	N/A	
Current IP Cam Module version:	1.0.0.81	
New IP Cam Module version:	1.0.0.81	
	OK	Cancel

- 3. Select the USB pen drive if there is more than one USB storage device from drop down list. The DVR unit will auto detects the firmware.
- 4. Click **OK** to start upgrading.

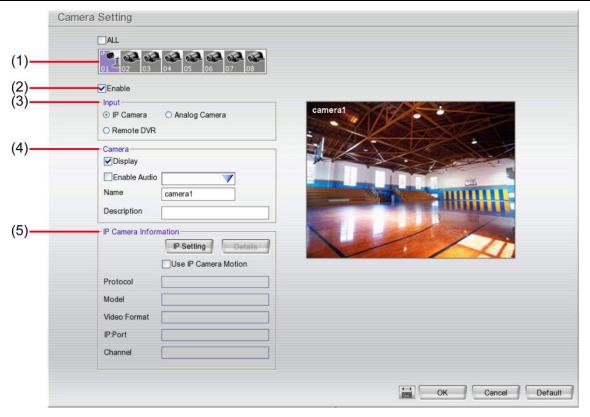
3.2 Camera Setup

The DVR system supports 8 cameras in combination of analog and IP cameras or only analog cameras. The DVR system only supports first 4 channels (CH1 ~ 4) for IP camera.

3.2.1 To Setup IP Camera

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

- EH1008H-4 Nano/Nano⁺ only supports first 4 channels (CH1~4) for IP camera.
- EH1004H-4 Nano/Nano⁺ supports both analog and IP camera in 4 channels.
 - 1.3 MP with H.264/MPEG4/ MJPEG on the first 4 channels and 2.3MP with MJPEG on the 1st channel for IP cam connection.



(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

When channel type is IP camera, the audio is not supported.

- Name

Change the camera name

- Description Add a short comment

(5) IP Camera Information

To setup IP camera and display current IP camera information.

- Using IP Camera Motion: Enable to use the motion detection function of IP camera if the IP camera has support motion detection and the motion recording will based on IP camera's motion detection setting.
- IP Setting: Click IP setting to add the IP camera.

		Auto Search		IP Camera Information V1.103H-005	
Protocol	l	TRUEN	V		
Model		TCAM-270			
Video Fo	ormat	H264			
Channel		1	V		
IP Camera	Site	192.168.0.187		: 8	0
OURL					
http://					
Authenti	ication				
ID	admin				
Password	****				

- 1. Click the radio button of **Protocol** to enable the setup of IP camera.
- 2. Select the Protocol, Model, Video Format, and Channel of the IP camera.
- 3. User also can click **Auto Search** button to find the IP cameras that can be detected on your LAN network.
- 4. Enter IP address and connecting port in IP Camera Site column.
- 5. Also, user can enter URL of IP camera instead of IP address.
- 6. If the IP camera has authority request, please enable Authentication and enter ID and Password.
- 7. 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.

Advanced IF	Camera Setting				
Video Setting			camera1		
Video Size	640x480				A
Frame Rate	30				
Bitrate Mode	Variable Bit Rate				
Quality]	100			215
Bright	<u> </u>	50	11		
Contrast	<u> </u>				1-
Hue	<u> </u>				1
Saturation	<u> </u>		Max Res	solution: 1920 X	(1200
-I/O Control					
Sens	sor Rela	Y			
L					
			Oł	K Can	ncel Default

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 has 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.

Sensor Set	ting
Sensor 1	V
Name	
Content-	
Camera	16
Protocol	Panasonic
Model	BB-HCM515
Description	
Test-	Stop
	OK Cancel

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.

Relay 1	
Name	
Enable	
Content	
Camera	16
Protocol	Panasonic
Model	BB-HCM515
Description	
-Test	
High	Stop
High	Stop

3.2.2 To Setup Analog Camera

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

	Camera Setting	
(1)—		
(2) (3)	✓Enable Input IP Camera O Analog Camera Remote DVR	camera5
(4)—	Camera Display Enable Audio 1 Name camera5 Description	
(5)—	Video Adjustment Bright 42 Contrast 42 Hue 51 Saturation 56 Sharpness 50	
(6)—	Enable Deinterlace	Cancel Default

(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 Analog 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

Mark **Enable Audio** will allow recording the sound that received from selected audio input channel (audio input channel located on back panel of DVR). For example: user has enabled audio and select audio input channel 1 on the camera 4. Therefore, DVR will record the video of camera 4 and sound that received from audio input channel 1 together. While playback, user will hear sound that received by audio input channel 1 on camera 4.

- Name

Change the camera name

- Description

Add a short comment

(5) Video Adjustment

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

(6) Enable Deinterlace

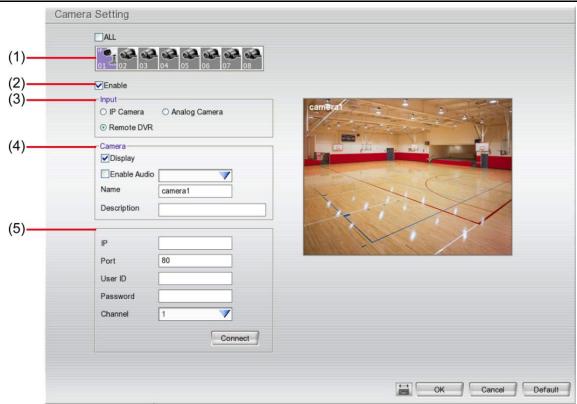
To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.

3.2.3 To Setup Camera from the Remote DVR

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

A

EH1004H-4 Nano/Nano⁺ and EH1008H-4 Nano/Nano⁺ only support first 4 channels (CH1~4) for remote DVR's 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 **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

When camera type is Remote DVR, the audio is not supported.

- Name

Change the camera name

- Description Add a short comment

(5) Remote Camera Information

- 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.

3.3 Recording Setup

3.3.1 Setup IP Camera Record Setting

	Recording Setting		
	All		
(1)—	01 02 03 04 05 06 0	7 08	
(2)—	Recording Mode		camera1
	 Always Recording Motion Recording Smart Recording No Recording Start Record prior Stop Record after 	Schedule 3 Sec. 3 Sec.	
(3)—	Motion Detection		
	Sensitivity	70	
	Individual Adjustment		OK Cancel Default

(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 \odot 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

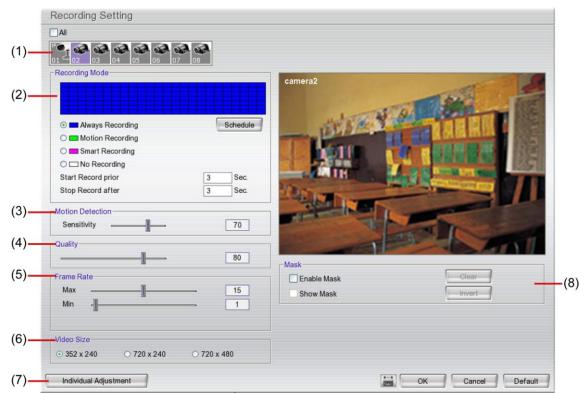
The system won't do any recording.

(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.

3.3.2 Setup Analog Camera Record Setting

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



(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 \odot 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 record at the maximum frame rate setting once a motion is detected and recording time will be based on **Stop Record After** setting; if there is no motion, it records at the minimum frame rate setting. Set the frame rate in **(5) Frame Rate**.

- 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.

(4) Quality

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

(5) Frame Rate

Set the maximum and minimum number of frames to be recorded during motion and motionless state. The frame rate ranges from 01 to 30 for NTSC and 01 to 25 for PAL. The higher the frame rate, it uses more hard disk space.



Always recoding frame rate is depending on value of max frame rate.

(6) Video Size

Select the size of the video and click the \odot button. The higher the size, the larger the file it create.

(7) Individual Adjustment

Each camera can adjust video size and frame rate individually. Click **Default** will back to the factory default value. The frame rate usage is shown in **Used** and **Unused** columns by CIF mode.



Adjusting video size and frame rate by channel, only available on the analog camera.

Video Si				
1000 01	ze		Frame Rate	Current/ Max
MPEC	G4 (640x48)	0)]	- 25 / 30.0
⊙ CIF	O Half D1	O D1		- 15 / 30
⊙ CIF	⊖ Half D1	O D1		- 15 / 30
ⓒ CIF	O Half D1	O D1		- 15 / 30
⊙ CIF	O Half D1	O D1	— <u>I</u> —	- 15 / 30
⊙ CIF	O Half D1	O D1		- 15 / 30
⊙ CIF	O Half D1	O D1		- 15 / 30
⊙ CIF	O Half D1	O D1	— —	→ 15 / 30
CIF	Half D1	• D1	<u> </u>	- 0 / 0
CIF	Half D1	• D1	<u>]</u>	- 0 / 0
CIF	Half D1	● D1]	- 0 / 0
CIF	Half D1	• D1]	- 0 / 0
© CIF	Half D1	© D1	[- 0 / 0
O CIF	I Half D1	● D1]	- 0 / 0
⊖ CIF	O Half D1	© D1]	- 0 1 0
O CIF	Half D1	© D1	1	- 0 / 0
	 CIF 	 ○ CIF ○ Half D1 	○ CIF ○ Half D1 ○ D1 ○ CIF ○ Half D1 ○ D1	O CIF O Half D1 O CIF

(8) Mask



Mask and POS function cannot be enabled at the same time.

Mark an area on the screen to disregards the motion in the marked area and to only monitor outside the marked area. Enable the **Enable Mask** and click-and-drag an area on screen that user wants to mask. To clear all mask area, click **Clear** button. To inverse the mask area, click **Invert** button. The original selected area will exchanged with un-selected area. To show the mask area on preview screen, enable **Show Mask**. The mask is able to see on the screen only when preview screen is in single screen mode

3.4 Network Setup

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

erver Name	EH1008H	PCViewer Configuration
		Enable Anonymous Login
Transmitting Cameras — All		PCViewer PORT 80
✓ 1 ✓ 2 ✓ 3	✓ 4 ✓ 5 ✓ 6 ✓ 7 ✓ 8	Network Time Synchronization
Main Configuration		Time Server:
Server IP	10.1.2.94 Setting	Time Zone GMT+00:00
	10.1.2.04	Automatic synchronize at 00:00
Remote Console PORT	5550	Synchronize Time Right Now
Remote Update Configur	ation	Cother Configuration
PORT	5005	
		Network Bandwidth Limit
		L

(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 PCViewer, 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.

System IP setting	
◯ Using the following IP address	PPPOE
 Obtain an IP automatically(DHCP) 	User ID
O PPPOE	Password
- IP Information	
IP 10.1.2.94	
Mask 255,255,255,0	Domain Name
	Password
Gateway 10.1.2.254	DDNS Server Name ddns.avers.com.tw
DNS 10.1.1.57	DDNS Server Port 1053
MAC Address 00:50:43:81:81:a3	DDNS Server Port
	OK Cancel

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

Enter the IP address of DNS if it is available.

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

- Domain Name

Enter the domain name that user has registered.

- Password

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

DDNS Server Name

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

DDNS Server Port

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

(4) Remote Upgrade Configuration

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

(5) PCViewer Configuration

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

(6) Network Time Synchronization

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

(7) Other Configuration

Enable White List

Ð

Without any IP/IP range is assigned in White List table, none of IP address/IP range is allowed to access DVR when White List function is enabled.

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 Wr	nite List		
O IP]	
○ IP Range]-[
Add			
Delete			
Clear All			
		OK	Cancel

- Network Bandwidth Limit

By Channel: Set the network bandwidth by each channel. **All:** Set the total network bandwidth consumption limit.

Camera 01	64	KB/s
All		
Total Limit	1024	KB/s

3.5 Schedule Setting

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

Sun. Mon. Tue. Wed. Thu. Fri. Sat. 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	
Sun. Mon. Tue. Wed. Thu. Fri. Sat. 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	
1 2 3 4 5 6 7 Image: Second	
8 9 10 11 12 13 14 15 16 17 18 19 20 21 ONE TIME 22 23 24 25 26 27 28	
15 16 17 18 19 20 21 ONE TIME 22 23 24 25 26 27 28	
22 23 24 25 26 27 28	
29 30 31 1 2 3 4 CRemove	
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 2 08/29 Sun 08/30 Mon 08/30 Mon 08/31 Tue 08/31 Tue 08/31 Tue 09/01 Wed 09/02 Thu 09/02 Thu 09/03 Fri 09/03 Fri 09/03 Fri 09/04 Sat 09/04 Sa	2223

To Set the Schedule Setting:

- 1. Select the date in the calendar. Use Image: Select the date in the calendar. Use Image: Select the date in 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 \odot to make a selection.
- Click on the blocks to set the schedule or click All to select all. To un-select the specific schedule blocks, click the Remove and click blocks to un-select. To store the setting, click Save. To remove the settings, click Clear.
- 5. To end Schedule Setting, click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

3.6 Backup Setup

1

While backup, the CPU usage will be near to 100% and might slow down the DVR system response.

In the Backup Setting dialog box, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 08 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 Chapter 3.6.1).

Backup Setting																									
										10															
	<			2011/05					>			[T				
	Sun	Mon	Tue	Wed	Thu	L I	Fri	S	at					kequ	iire S			1							
	24	25	26	27	28		29		30							(0.00	M	В						
	1	2	3		5		6		7					iroo	Spa	~~									
	8 15	9 16	10 17	11 18	12 19		13 20		4				- F	100	opa			1.64							
	22	23	24	25	26		20		28				L			(0.00	M	в						
	29	30	31	1	2		3		4			l													
														_	Re	scar	n De	vice)]				
	Del	ete rec	corded f	iles afte	er Bac	kup							_												
	Save p		N/A							1	/	ſ			Bac	kup	Nov	v							
			16			_	_	_	_	_	~		_		Duo	nup	1101		_	-					
	Folder	Name	Backu	ib																					
			02 03	04 05	06107	7 08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
	01		02 00			00	00	10		12	10		10	10	17	10	10	20	21	LL	20				
	02																								
	03																			-					
	04									- 15		2i	×												
	05																								
	06			0 0								51						20 		3) 3)					
	07																								
	08																								
					_																		_		_
		All	C	lear All	1																		_	Exit	1

- 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.
- In the table below, click on the blue block to select the recorded file or click camera (01~16) 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.
- 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. DVR system will give Folder Name automatically.
- 6. Click Backup Now button to start archiving the selected file.

3.6.1 Using QPlayer to Playback Backup Video

You can playback the backup files by using QPlayer applications on the PC. When you back up the recorded file, QPlayer applications are automatically included in the backup folder if user has enabled the selection of **Inculde player when backup** when backup recorded file. 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.

AVer Camera 1 Eta Intelligent Search (16)(15) Search Find Next (14) ñ Visual Search (13)Full scre (12)(11)Be Export (10)(III) (GL) A (17)(9) Languages (18)(8) (19)(7)Archive 0 (1)-11 12 13 14 15 16 17 18 19 20 21 22 23 (4) (2)(3)(5) (6)

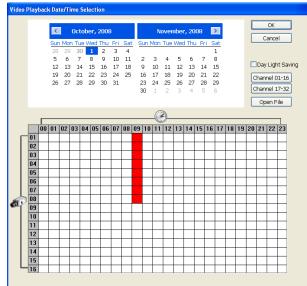
To run the application, go to backup folder and double-click **Qplayer.exe**.

Name	Function
(1) Exit	To close the application
(2) Split Screen Mode	Select from 6 different split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.
display and re	nly 8 cameras, when user select 13 and 16-split screen mode, only 8 channels have the video est of channels will be black screen. In area on the screen, Right click and Drag a square on the area you want to enlarge.
(3) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(4) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
	ns represent the time in 24-hour clock. The blue bar on top of the hour button indicates that ded video file on that period of time. While the red bar indicates that you are currently viewing deo file.
(5) Playback Control Buttons	 From left to right order: Begin: Move at the beginning of the recorded video file. Previous: Go back to the previous frame. Slower: Play the recorded video file at the speed of 1/2X, 1/4X, 1/8X, 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.

(6) Archive

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

- 1. OPEN FILE: user can open the recorded file from HDD
- Channel 01~ 16&Channel 17 ~ 32: If the channels are over 16, click button to switch to different channel group of playback calendar.
- 3. Day Light Saving: the playback calendar will show the available video records during day light saving time period.



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

(7) Status bar	Display the recorded date, time and play speed.			
(8) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.			
(9) Language	Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.			
(10) Export	Export includes Snapshot, Print, and Output Video Clip function.			
	Snapshot: Capture and save the screen shot either in *.jpg format.			
	Print: Print the screen shot.			
	Output Video Clip: Save the segmented file in *.dvr format.			
(11) Segment	Keep a portion of the recorded video (see also Chapter 3.6.2).			
(12) Full screen	View in full screen mode. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon.			



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

Name	Function						
(13) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search function.						
(14) Event Search	Search from the recorded activities that were recorded in event log (i.e., Sensor, Motion, Video Loss). (See also Chapter 3.6.3)						
(15) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 3.6.4).						
(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 select #2, if it captures lots of movement.						
(18) Watermark	To verify the playback video has not been modified. Click 🍥 to check the video. Watermark						
	verification windows will show up as following:						
	Check Watermark						
	Accurate Ratio 100 % This light indicates watermark verification pass or fail Green Light: Pass Red Light : Fail / Without watermark embedded Watermark verification function is not supported with hardware compression product,EB,IP camera right now. Pause Exit						
	Green light: Pass the watermark verification.						
	Red light: Fail the watermark verification or this video doesn't has watermark embedded.						
	Watermark verification doesn't support the video that is recorded from IP camera.						

3.6.2 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.

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

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.

3.6.3 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 **Find Next**(**I**) button.
- 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.

3.6.4 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 I 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.



3.7 Sensor Setting

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

- 1. Click the drop-down list and select the sensor.
- 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.

Sensor Se	etting	
Sensor01		
Name		
Content	E	kternal IO
Card No.	1	
Input No.	01	
Description		
-Test	T	est
	ОК	Cancel

3.8 Relay Setting

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

- 1. Click the drop-down list and select the relay.
- 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.

Relay Sett	ing
Relay01	
Name	
Enable	External IO
Content	
Card No.	1
Input No.	01
Description	
- Test	Test
	OK Cancel

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.

No. 1 Name Alarm 1 Enable Time	Description		Add No. Name	Delete
00 01 02 03 04 05 06 07 08 09 10 11 12		Enable 1	Alarm 1	Description
Conditions	Action			•
⊙ Trigger if any O Trigger if all	Launch E-Map			
Motion Detected	Spot Monitor	Detail		
Video Loss	Enlarge Camera View	Detail		
01 02 03 04 05 06 07 08	Relay Output	Detail		
	IP Camera Relay	Detail		
Sensor High	Play Warning Sound			
01 02 03 04 Low	Send E-Mail	Detail		
01 02 03 04	File Transmission via FTP	Detail		
IP Camera Sensor	Start Recording	Detail		
Continuous trigger duration 0 Seconds	SMS	Detail		
Abnormal Event Detail POS Keyword Detail	PTZ preset point	Detail		
	Alarm SOP	Detail		
High 01 02 03 04	Send to CMS	Detail		
Low	Snapshot	Detail		
01 02 03 04				
IP Camera Sensor	1			
		ок	Canc	el Default
	12773			Deradit

- 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 08) 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.

Abnormal Event
Reboot
Abnormal Reboot
Recording is switched off
Network is switched off
Hard Disk failed
OK

- 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.
 - Spot Monitor

When the DVR system receives the alarm, the alarm video will display on spot monitor.

Mark **Spot Monitor 1/Spot Monitor 2** to enable the sport monitor function. And then, select the camera (channel) when the DVR system receives the alarm from the selected camera will display the alarm video on the spot monitor.

[Note] For Spot Monitor & TV out model, the DVR only supports one spot monitor port and the TV out Setting dialog will only has one Spot Monitor setting.

TV out setting	
Spot Monitor	
Camera02	
Note: Spot Monitors support analog	channels only
	OK Cancel

- 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.

Enlarge Came Camera01 V	era View	1
Retrieve time	0	Sec.
1744	ОК	Cancel

- 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 **Status** column, set to on/off 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.

No.	Name	Status
01	Relay01	N/A
Retrieve time	0	Sec.
		K Cancel

- Send E-mail

Send an electronic text message. Next to the Send Email check box, click Detail.

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

)—	E-Mail Setting				
,	SMTP Server				: 25
	Authentication				
	ID		Password		
) ——	Mail			Message	
	From:				
	То:				
	CC:				
	Subject:				
3)—	Snapshot				
	Enable				
	Select Camera	Camera01 💙			
	Video Size	Auto 💙			
				(<u></u>	OK Cancel

(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.

(3) Snapshot

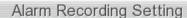
When send out the email, the DVR system will snapshot image of the selected camera channel.

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

- Start Recording

Record the video from the selected camera.

- 1. Next to 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.
- 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



All		
Recording Cameras		
	7	8
9 10 11 12 13 14	15	16
Frame Rate • As Setting Max		
Start Record prior	0	Sec
Stop Record after	0	Sec
t→ Image: OK	С	ancel

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

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

- PTZ preset point

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

Enabl	е							
	Numbe	r						
	Trigge							
	02		◎ 4	◎ 5	6 ©	07	0	8
9	0 10	© 11	0 12	13	014	01	5 🔘	16
Alarm	Close	-						
01	02	3	◎ 4	• 5	6 🔘	07	0	8
09	0 10	11	12	1 3	014	1	5 🔘	16
Aut	toPan-							-1
	1 - 4			5	- 8			
	9 - 12			13	8 - 16			
								_

- 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.

] All Transmitting Cameras —	
	5 6 7 8
9 10 11 12	13 14 15 16

3.11 User Setup

Only administrator level authority can access User Setting.

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

Level	Name	Description
Administrator	superuser	· · · · · · · · · · · · · · · · · · ·
Jser	user	
Administrator		

To Add a User Account:

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

	User Setting			
(1)—	Authorization Level	O Administrator	Visible camera	—(4)
(2)—	Control Right System Setting Camera Record Network Scheduler Backup Sensor	 Relay Alarm Setting Playback Power OFF Reboot PTZ E-Map 	I I	—(5)
(3)—	WebViewer Remote Console Remote Record Remote Access time Infinite	Remote LogViewer IP Camera Remote Setup	Name	—(6)

(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 Record

Allow the user to execute recording.

- 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 Setup

Allow user to change/modify DVR system setting from remote site.

- 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 UPC to Playback Backup File 4.1 Recommended System Requirements

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

4.2 Installing the USB Playback Console

To install the USB Playback Console:

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



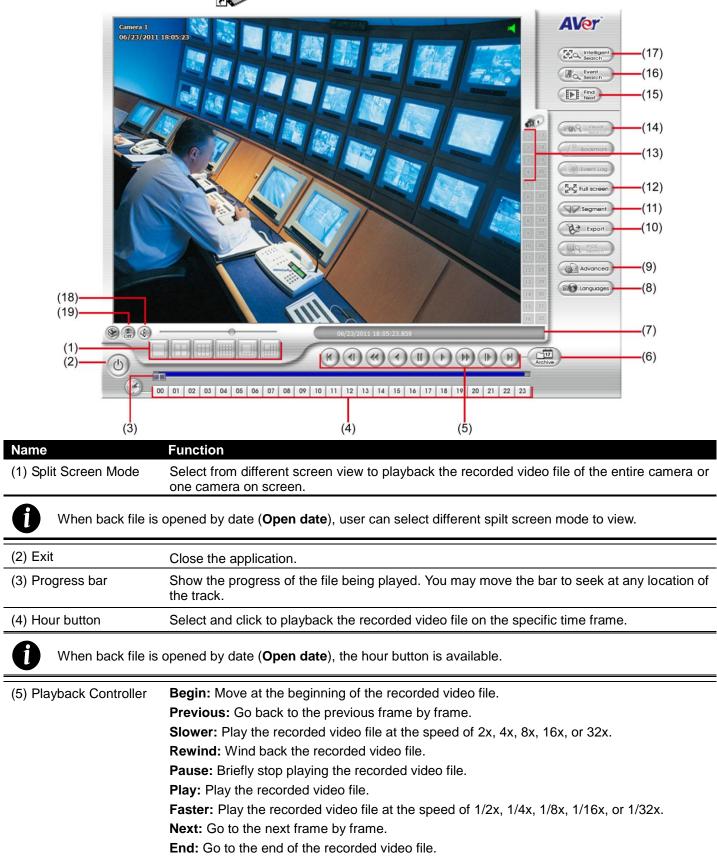
2. Select the language you prefer



- 3. Click **OK** to install the application.
- 4. Click **Exit** to close the installation main screen.
- 5. You may now connect the external USB storage device that has saved recorded files to PC.

4.3 Familiarizing the Buttons in USB Playback Console

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



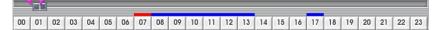
Name	Function
(6) Archive	To select the video file source for playing.
	Select File Type
	File Type for Playback
	O DVR Recorded File (HD)
	OBackup File (.dvr)
	O Backup File (.avf)
	OK Cancel
	 DVR Recorded File (HD): To playback the recorded video from the hard disk which was recording video on the DVR system. (see also <u>Chapter 4.3.2</u>)
	 Backup File(.dvr): The file is backup and save in *.dvr file format. (see also <u>Chapter</u> <u>4.3.3</u>)
	 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 (EH1000H-4 Nano/Nano⁺ series doesn't support *.avf file format).
(7) Status bar	Display the recorded date, time and play speed.
(8) Language	To switch DVR application UI language.
(9) Advanced	Advanced function is including :
	HDD Backup: to call out HDD Backup application. (see also <u>Chapter 4.3.4</u>)
	 iEnhance: to call out iEnhance application. (see also <u>Chapter 6</u>) AVF to AVI: save *.avf file format as *.avi file format.
(10) Export	Export includes Snapshot, Print, and Output Video Clip function.
()	Snapshot: Capture and save the screen shot either in *.jpg or *.bmp format.
	 Print: Print the screen shot.
(11) Segment	Output: Save the segmented file in *.avi format Keep a partian of the recorded video (acc plac Chapter 4.2.1)
(12) Full screen	Keep a portion of the recorded video (see also <u>Chapter 4.3.1</u>) 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.
(13) 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.
When back file is	opened by date (Open date), the camera ID button is available.
(14) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second(see also Chapter 4.3.5)
When back file is	opened by date (Open date), the Visual Search is supported.
(15) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search function.
(16) Event Search	Search from the recorded activities that take place in the system (i.e., Sensor, Motion, Video Loss, POS)(see also Chapter 4.3.6)
(17) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 4.3.7)
	- Turn on and off the sound
(18) Sound /Sound bar	- Increase and decrease the volume

4.3.1 To Cut and Save the Portion of the Recorded Video

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

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

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.

HDD	Size	Name
0	74 GBytes	IDE\DiskST380011A
1	149 GBytes	IDE\DiskWDC_WD1600JB-98G

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

			<	1	Oc	tob	er, 2	2010	D				N	over	nber	·, 20	10	>					OK ance	i.
			Sur	n Mo	n Ti	ue V	ved i	Thu	Fri	Sat	S	iun	Mon	Tue	Wed	t Thu	Fri	Sat			L	U	ance	1
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			З	4			6	7	8	9		7	8	9	10	11								
			10					14	15	16		14	15	16	17	18								
			17	-				21	22	23		21	22	23	24	25					6	han	nel O	1-1
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		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15 1	16 17	18	19	20	21	22	23
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	03						22. 			92. V.		22												
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	07	87	22	8); 	82	97	22	97	2	2	8	22												
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1	09	23	20	93. 	20	22	22	25	8	22	2	22	-					-			27		-	
	10	1	-		-	10	1		1	1			100	1	10		-	-	1	1		1	50 	
	11	33 	22	2	22	22	22	22	2	22	53	22	22	2	8	8	8	1	1	22	2	2	2	
	12	-	-	-	-	-	6	-	-	-	-	-			-	-	-	-	1	-	10	-	-	-
	13	93. 	22	93. 	2	22	22	25	8	22	S.	22	93		2	2			100	2	93	2	9.	<u>9</u> 0
	14	10	-	100	-	12 <u>0</u>	12	10	8	10	12		125	-	10	2	-	-	2	1	22	2	26	<u> (1)</u>
	15	83	8	s:	8	93	82	95	8	8	8	22	- 22	8	2	8 S			-	82	93	-	8	<u>97 - 72</u>
	16	-	2	3	-	10	0	10	3	12	3		104	1	10	2	1 3	0	12	-	3	2	<u> </u>	-

4.3.3 Playback Backup File(*.dvr)

- 1. Click Archive button.
- 2. Select Backup File(*.dvr) and click OK.



3. The Select File Type window will show up. Select the way to open the backup file.

Select File Type	
O Open Date O Open File	
ΟΚ	Cancel

- **Open Date:** Open backup file by date. Located the backup file on local hard disk and select the date on calendar to playback.
 - ✓ Change Folder: To select different playback file form other folder location.
 - ✓ Channel 01~ 16&Channel 17 ~ 32: Switch to different channel group of playback calendar if the camera channel is more than 16 channels.

			<		Oc	tob	er, 2	2010)				No	over	nbei	r , 20	010		>					OK	
			Sur	n Mo	n Ti	Je V	Ved	Thu	Fri	Sat	t s	iun N	/lon	Tue	Wed	t Th	u Fr	1 S	at			L	C	ance	el
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	03		20	9). 			20		8) 					20						8). 			9) 		
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	07	2	22	9)	2	93	2	93	9	92	9. 	93. 	93	92	91	2	93	8	92	9). 	92	93	92	93	92 - 93
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	11	S	22	9); 	92	92	- 22	92	\$. 	92	93. 	92	93. 	92. 	92	2	9X	<u>8</u>	92	\$1.	£	92	92	<u>9</u> 2	92.—93
	12	-	100	26	-	26	10	10	100	10	100	10	10	126	10	-	<u>.</u>	2	10	26	10	106	12	10	<u> </u>
	13	2	22	52. 	8	22	8	25	8	22	\$.	s. –	s	8	25	8	s. –	8	22	s).	22	2	8	22	<u> 2</u> -2
	14	-	10	26	2	24	12	26	125	10	125	12	10	12	24	2	10	2	10	10	12	24	12	24	2 <u></u>
	15	-	8	S.	82	S.	82	93	S.	82	s:	22	s).	22	92	8	8	82	82	S.	82	92	82	82	82-22
	13	10	10	106	10	24	100	10	<u> </u>	10	10	10	26	10	26	2	10	<u> </u>	0	2	0	26	<u> </u>	26	10 11

Open File: Locate the backup file folder and click **OK**.



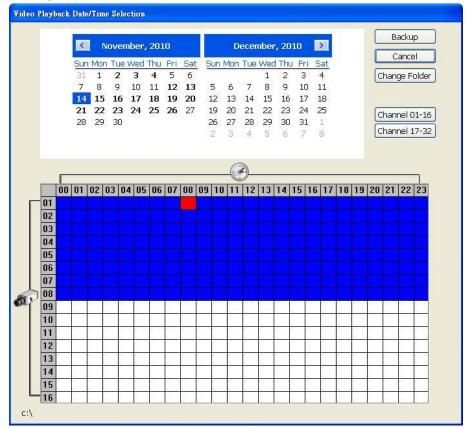
When open the backup video file, just locate the where backup file folder is.

4.3.4 To Backup Recorded File

- HDD backup function allows user to backup recorded file from hard disk.
- 1. Click Advanced \rightarrow HDD Backup on USB Playback Console UI.
- 2. Select the source hard disk.

Disk Seleo	:t	
HD	Size	Name
0	1 GBytes	USBSTOR\Disk&Ven_JetFlash
<		
	OK	Cancel

3. In Backup date/time selection windows, select the date and time. 00-24 represents hours and 01-08/01-04 represents channels. Blue block means there has recorded file. Red block means the block has been selected. Click-and-drag can select multiple blocks at once.



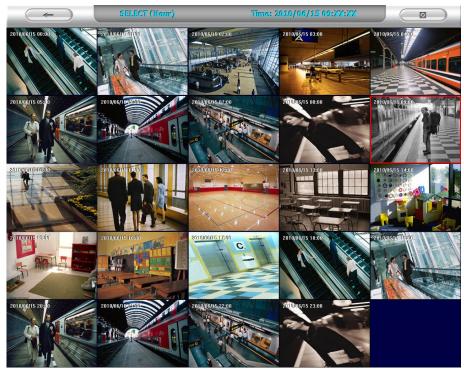
- 4. Click **Backup** to start backup file.
- 5. When backup complete, the complete information windows will display.

4.3.5 To Search Using the Visual Search

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



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



4.3.6 To Search Using the Event Search

- 1. Click on the video screen on where you want to search.
- 2. Click **Event Search**. The Event Search text (red) would appear at the lower left corner of the screen.
- 3. In the Event Search Setting dialog box, check the type of condition you want to search. The video search would stop at the frame that matches the condition. To keep on searching click **Find Next** (
- 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.

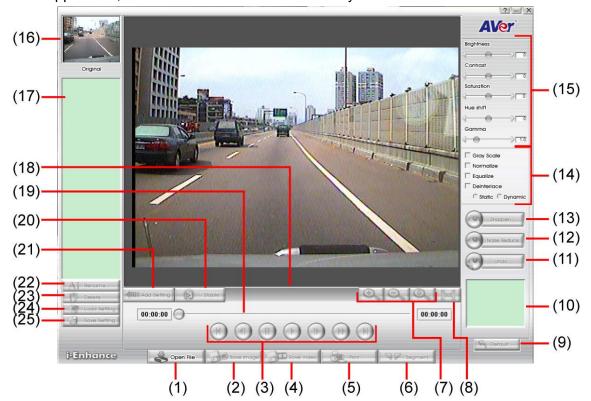
Event Search Setti	ng			
Searching Cond	lition			
Sensor	Motion		/ideo Loss	
POS	Find Text [1. /}		
Output Event I	.ist			
Searching Dura	tion			
Begin Time	6/15/2010	~	3:15:30 AM	*
End Time	6/15/2010	~	3:15:30 PM	*
Searching Inter	val 30		Seconds	
			OK Car	ncel

4.3.7 To Search Using the Intelligent Search

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

Chapter 5 iEnhance

The bundled iEnhance is a video editing tool and can only be used with *.dvr and *.avf 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 and *avf video file.
(2) Save Image	Capture and save the screen shot in *.bmp format.
(3) Playback Control	Begin: Move at the beginning of the video file.
Buttons	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.
(12) Noise Reduce	Adjust the softness and repair the damaged colors.
(13) Sharpness	Improve the overall image by enhancing edges. This gives the image more depth.

Name	Function
(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.
	- Dynamic: de-interlace for moving scene.
(15) Picture Adjustment	Adjust the Brightness, Contrast, Saturation, Hue and Gamma.
(16) Original Screen	Display the original state of the image.
(17) Temporary Setting Block	Display the sample settings. Click the sample to apply the setting on the current video.
(18) Status Bar	Display the date, and time of the video.
(19) Progress Bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(20) iStable	To reduce the jolt in the recorded video.(also see Chapter 5.1)
(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.

5.1 To Use iStable

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

- 1. Click **Open File** button and select the recorded video.
- 2. And then, click **iStable** button.
- 3. iStable windows will show up.
- 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 windows. The original video on the left side of window and the stabilized video on the right side of window.



Chapter 6 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.

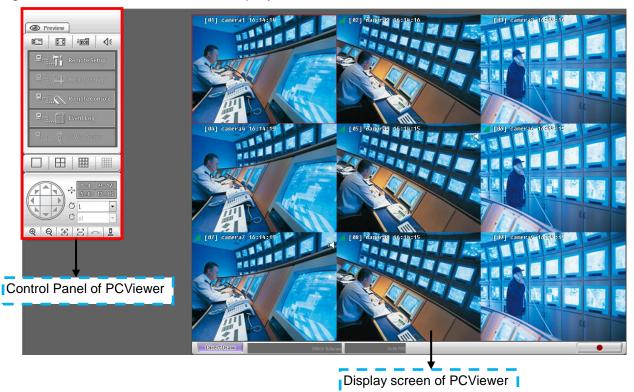
Accessing this feature for the first time you will be prompted by your browser to install WebCamX.cab, allow the installation and you should be able to connect and login afterwards.

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

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

- To have smooth remote frame rate, it's suggested to connect DVR by selecting WAN (512K/64K) as the Network Type on PCViewer.
 - To operate full remote function, please use "Administrator" account to execute IE browser.

After login, the PCViewer interface is displayed.

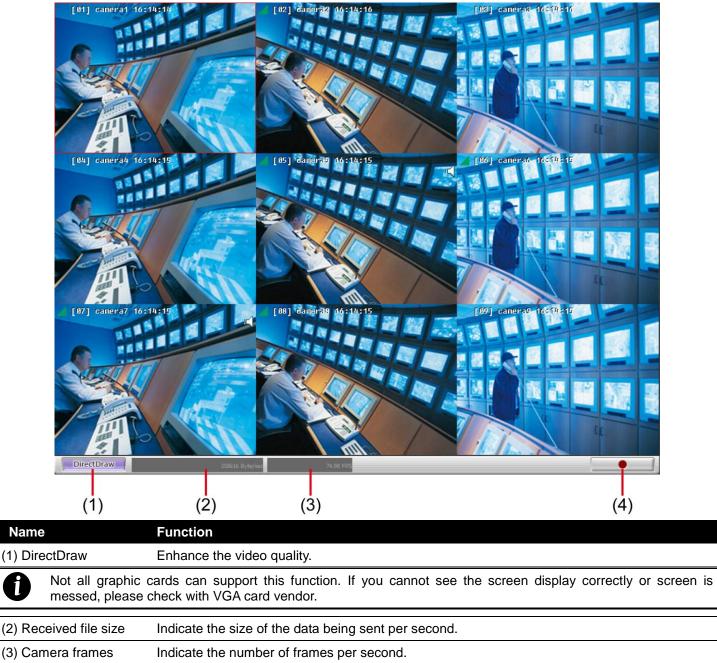


6.1 Familiarizing the Buttons in PCViewer

6.1.1 **PCViewer Screen**

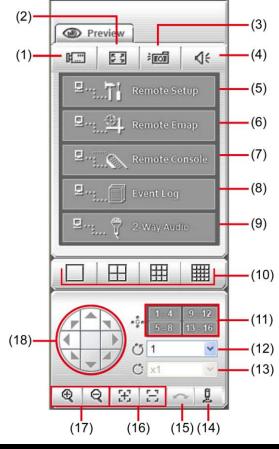
1

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



(4) Record Start to record the video of the selected camera in AVI format. Directly click screen to select the channel that user wants to record and press Record button.

6.1.2 PCViewer Control Panel



l		1	
	A T		0

(1) Select cameras to view

Name

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. Click **OK** to exit.

No.	IP Address	Camera Name	Display	Video Quality
01	10.1.2.51:80	camera1	V	High
02	10.1.2.51:80	camera2	×	Default
03	10.1.2.51:80	camera4	V	Default
04	10.1.2.51:80	camera5	 Image: A start of the start of	Default
05	10.1.2.51:80	camera6	×	Default
06	10.1.2.51:80	camera7	 Image: A start of the start of	Default
07	10.1.2.51:80	camera8	V	Default

(2) 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.
(3) Snapshot	Capture and save the screen shot in *.bmp format.
(4) Audio	Enable/disable remote sound.
(5) Remote setup	Change the DVR server settings (see also Chapter 6.1.3)
(6) Remote Emap	To call out the Emap of remote DVR server to view.
(7) Remote Console	Initiate Remote Console. It allows you to control DVR server (see also Chapter 6.2).
(8) Event Log Viewer	Display the Event logs, Operation logs, System logs, and Network logs.

Name	Function
(9) 2-Way Audio	Enable/disable 2-way audio function. This function allows the client and server to talk via internet using MIC.
	Make sure your microphone and speakers work before using this function. If the DVR server Talk to web-client setting is disabled, you won't be able to hear from the other side.
(10) Split screen view	Select from four different split screen types to view all the cameras.
(11) Auto Pan Group	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(12) Camera preset position number	Move the PTZ camera to the preset point.
(13) Direction buttons' moving speed	Adjust the moving speed of the PTZ camera lens. This speed will apply to the (18) Direction buttons ' moving speed only.
(14) Select PTZ	Choose to enable/disable the PTZ camera. In the Select PTZ dialog box, Select column, click to enable/disable viewing and controlling the PTZ camera.
	Click OK to exit and save the setting and Cancel to exit without saving the setting.
(15) Atuo Pan	Enable the PTZ cameras automatically based on the selected camera group preset position number.
(16) Zoom +/-	Zoom the image in or out.
(17) Focus +/-	Adjust the focus manually to produce clear image.
(18) Direction Buttons	Adjust and position the focal point of the PTZ camera. The supported direction buttons are depended on the PTZ camera has supported.

6.1.3 To Setup Remote System Setting

The setting here applies to Remote DVR only.

6.1.3.1 System Setting

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

torage Path				Miscellaneous		
Disk Name	Free Space	Capacity	Status	Playback Mode	Instant Playback	•
SATA-0:ST31000525SV			Normal	Enable intelligent stream	ning of IP camera	
				Date Format	mm/dd/yyyy	•
				AutoScan Period	3 💌 Sec.	_
				Login		
		Add	Delete	🗖 Auto Login after system) boot up	
Delete recorded data after:		7 Day	/c	Auto record when login		
Delete event and alarm log		30 Day		Auto start Network whe	n login	
 Overwrite Enable 		loo Dal		Default User	admin	÷
anguage				Date and Time Setting		
				System Date and Time	05/03/2011 13:24:35	Setting
System Language	nglish	<u> </u>			05/05/2011 13:24:35	Setury
ideo Standard	POS			Daylight Saving Time		
			1	Start Date/Time	2011/04/14 11:45	Setting
C NTSC C PAL		Settir	g	End Date/Time	2011/04/14 11:45	Setting
onfiguration	Tour	h Monitor		Daylight Bias		-
Import Expor				Firmware		
EXPOR		Connect	Adjust	Product Version	H8.01.01.00.28a	Update
				IPCam Module	1.0.0.99	Update

(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 when login Automatically start video recording when the DVR is executed.
- **Auto start Network when login** Automatically connect to network when the DVR is executed.

6.1.3.2 Camera Setting

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

IP Camera Setting

	Camera Setting
(1)—	
(2)—	
(-)	Input
	IP Camera OAnalog Camera
	O Remote DVR
(0)	
(3)—	Camera
	☑ Display
	Enable Audio
	Name camera1
	Description
(1)	IP Camera Information
(4)—	IP Camera Intol madori
	Use IP Camera Motion
	Protocol
	Model
	Video Format
	IP:Port
	Channel
	Default Update Exit

(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. For General camera setting, see <u>Analog Camera Setting</u>. To modify camera of remote DVR, see <u>Remote DVR 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

(5) IP Camera Information

To setup IP camera and display current IP camera information.

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

🛃 IP Camera Settings			\mathbf{X}
-IP Camera Information	I		
⊙Protocol	AXIS	*	Search Devices
Model	207MW	~	
Video Format	MPEG4	~	
Channel	1	~	
IP Camera Site			: 80
OURL			
http://			
Authentication			
ID			
Password			
		ОК	Cancel

- 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.

Analog Camera Setting

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

	S Camera Setting
	☐ ALL
(1)-	
(2)-	01 - 02 - 03 04 05 06 07 08 07 07 08 07 07 08 07 08 07 07 08 07 07 08 07 07 08 07 07 08 07 07 08 07 07 08 07 08 07 07 08 07 07 08 07 07 08 07 07 08 07 08 07 08 07 08 07 08 07 08 07 08 07 08 07 08 07 08 07 07 08 07 07 08 07 07 08 07 07 08 07 07 08 07 07 08 07 07 08 07 07 08 07 07 08 07 07 08 07 07 08 07 07 08 07 07 08 07 07 08 07 07 07 08 07 07 07 08 07 07 07 07 07 07 07 07 07 07 07 07 07
(3)-	C IP Camera C Analog Camera
	C Remote DVR
(4)-	Camera Camera
(-)	I Display
	✓ Enable Audio
	Name Camera 03
	Description
(5)-	- Video Adjustment
(-)	Bright [42
	Contrast 42
	Hue 51
	Saturation 53
	Sharpness 50
	Update Exit Default

(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 **General Camera**. For IP camera setting, see <u>IP Camera Setting</u>. To modify camera of remote DVR, see <u>Remote DVR 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

(5) Video Adjustment

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

Remote DVR Camera Setting

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

	🛃 Camera Setting	
		ALL
(1)—		P 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
(2)—	-	2 Enable
(3)—		Input
(-)		O IP Camera O Analog Camera
		Remote DVR
(4)—		Camera
. ,		
		Enable Audio
		Name camera3
		Description
(5)—		Remote Camera Setting
		IP
		Port 80
		User ID
		Password
		Channel 1
		Connect
		Default Update Exit

(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>. To modify analog camera setting, see <u>Analog 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

(4) Remote Camera Setting

- IP

Enter the IP address of the camera

- **Port** The port for connection
- User ID

Enter the user id that for connecting authority

- Password
 - Enter the password that is for connecting authority
- Channel Select the channel of connected camera

6.1.3.3 Record Setting

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

IP Camera

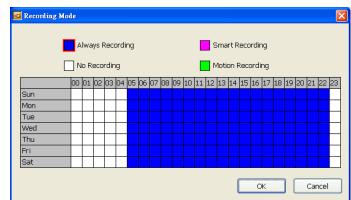
	Recording Setting
(1)—	
(2)—	Recording Mode
(-)	
	Always Recording Schedule
	O Motion Recording
	O Smart Recording O No Recording
	Start Record prior 3 Sec.
	Stop Record after 3 Sec.
(3)—	Motion Detection
	Sensitivity 70
	Default Update Exit

(1) Camera Icons

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

(2) Recording Mode

The 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 \odot 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.

Analog Camera

	Recording Setting
(1)—	All PO PO P
(1)	01 4 02 03 04 05 06 07 08 04 05 06 07 08 04 04 04 04 04 05 06 07 08 04 04 04 04 04 04 04 04 04 04 04 04 04
. ,	
	⊙ Always Recording Schedule
	O Smart Recording
	ONo Recording
	Start Record prior 3 Sec.
	Stop Record after 10 Sec.
(3)-	Motion Detection
(-)	Sensitivity 70
(4)-	Quality Mask
· · /	Enable Mask Clear
(5)-	Frame Rate
. ,	Max 18
	Min3
(6)-	Video Size
	O 352 x 240
(7)-	Individual Adjustment 📄 Update Exit Default
• •	

(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 \odot 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.

	Always Recording								Smart Recording																
	No Recording										Ν	lotic	on F	leco	ordir	ng									
	C	00 O	1	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	2
Sun																									Γ
Mon																									
Tue																									
Wed																									Γ
Thu																									
Fri																									
Sat																									

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.

(4) Quality

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

(5) Frame Rate

Set the maximum and minimum number of frames to be recorded during motion and motionless state. The frame rate ranges from 01 to 30 for NTSC and 01 to 25 for PAL. The higher the frame rate, it uses more hard disk space.



Always recoding frame rate is depending on max frame rate value.

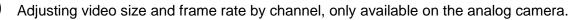
(6) Video Size

Select the size of the video and click the

button. The higher the size, the larger the file it create.

(7) Individual Adjustment

Each camera can adjust video size and frame rate individually. Click **Default** will back to the factory default value. The frame rate usage is shown in **Used** and **Unused** columns by CIF mode.



H01-CH08: CIF:	240		Used:	156	Un	used:	84	
amera	Video Siz	e		Frame Ra	te	Current	1	Мах
Camera O1 (IP)	OMPEG	4		-		-	$\frac{1}{1}$	THEAT
Camera O2 (IP)	OMPEG	4		-			1	
Camera O3 (IP)	OMPEG	14		-		-	1	
Camera 04	OCIF	⊙ Half D1	OD1	-	- 1	- 18	1	30
Camera 05	⊙ CIF	⊖Half D1	OD1		-	30	1	30
Camera 06	⊙ CIF	◯Half D1	OD1			30	1	30
Camera 07	⊙ CIF	⊖Half D1	OD1			30	1	30
Camera 08	⊙ CIF	⊖Half D1	OD1			30	1	30
Camera 09	◯ CIF	OHalf D1	OD1				1	
Camera 10	◯ CIF	OHalf D1	OD1	- Ö		-	1	
Camera 11	◯ CIF	OHalf D1	OD1	- T		-	1	
Camera 12	OCIF	O Half D1	OD1			-	1	
Camera 13	OCIF	O Half D1	OD1			-	1	
Camera 14	◯ CIF	OHalf D1	OD1	1		-	1	
Camera 15	◯ CIF	O Half D1	OD1			-	1	
Camera 16	◯ CIF	O Half D1	OD1			-	1	

6.1.3.4 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 <u>Appendix A</u>.

Server Name	EH1008H	WebViewer Configuration	
Transmitting Cameras ☑All		WebViewer PORT	80
V1 V2 V3	፼4 ፼5 ፼6 ፼7	■8 Network Time Synchronization	
9 10 11	12 13 14 15	Time Server:	
Main Configuration		Time Zone	GMT+00:00
Server IP	10.1.2.51	Setting Automatic synchronize at	00:00
Remote Console PORT	5550		Synchronize Time Right Now
Remote Update Configuration		Other Configuration	
PORT	5005	Enable White List	Detail
		Network Bandwidth Limit	Detail

(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 PCViewer, 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.



Without any IP/IP range is assigned in White List table, none of IP address/IP range is allowed to access DVR when White List function is enabled.

Network White L	ist
op	0 0 0
O IP Range	
Add	
Delete	
Clear All	
	OK Cancel

Network Bandwidth Limit

-

By Channel: Set the network bandwidth by each channel.

All: Set the total network bandwidth consumption limit.

🛃 Bandwidth Settings		
Camera 01	•	64 KB/s
OAII		
Total Limit	1	024 KB/s
	ок	Cancel

6.1.3.5 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)— (2)—	No. 1 Name Alarm 1	Description		Add	Delete	
(2)		4 15 16 17 18 19 20 21 22 23	Enable	No.Name1Alarm 12test	Description	— (8)
(3)—	Conditions	Action				-(0)
()	⊙ Trigger if any O Trigger if all	Launch E-Map				
(4)—	Camera Motion Detected Detail	Spot Monitor	Detail			
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16	Enlarge Camera View	Detail			
	Video Loss Detail	Relay Output	Detail			
	Audio Detected	IP Camera Relay	Detail			
(5)	Sensor	Play Warning Sound				
(5)—	High	Send E-Mail	Detail			
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16	File Transmission via FTP	Detail			
	Low 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16	Start Recording	Detail			
	IP Camera Sensor	SMS	Detail			
	Continuous trigger duration 0 Seconds	PTZ preset point	Detail			
	Abnormal Event Detail	Alarm SOP	Detail			
	POS Keyword Detail	Send to CMS	Detail			
(6)—	Alarm Reset	Snapshot	Detail			
(-)	High					
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 Low					
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16					
	IP Camera Sensor			Update Ex	(it Default	

- 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 08 or 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.

Abnormal Event	
System Reboot	
Abnormal Reboot	
Recording is switched off	
Network is switched off	
Hard Disk failed	
OK	Cancel

- System Reboot: when the DVR system reboot without abnormal condition, the system will send out the alarm message.
- Abnormal Reboot: when the DVR system reboot in irregular condition, the system will send out the alarm message.
- Recording is switched off: when the recording has been stopped, the system will send out the alarm message.
- Network is switched off: when the network connection of DVR system is lost, the system will send out the alarm message.
- Hard Disk failed: when the hard disk 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.

🛃 Enlarge Camera Vie	w	
Camera01 😽		
Retrieve time	0	Sec.
	ок	Cancel

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

lo.	Name			Status
1	Relay)1		N/A
Retriev	re time	[5	Sec.

Send E-mail

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

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

> Mail Server

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

> Mail

Fill the mailing information.

- ✓ **From:** Enter the sender e-mail address.
- To and CC: Enter the recipient email address and separate it with comma or a semicolon (;).
- ✓ **Subject:** Enter the message title.
- ✓ Message: Type the message.

🛃 E-Mail Setting		
Mail Server		: 0
	Password	
Mail	Message	
From:		~
То:		
cc:		
Subject:		
Snapshot Enable		
Select Camera	Camera01 👻	
Video Size	Auto 👻	
		OK Cancel

- Start Recording

Record the video from the selected camera.

- 1. Next to 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.
- 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

🛃 Alarm	Recordi	ng Settin	ıg					×
Record	ling Carr	ieras						
1	2 2	У З	₹4		1 6	7	⊠8	
9	10	11	12	13	14	15	16	
Frame	Rate							
💽 As	s Setting			ОМа	X			
Start	t Record	ing prior			D	Seco	nds	
Stop	Recordi	ng after			D	Seco	nds	
				0	к		Cancel	

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.

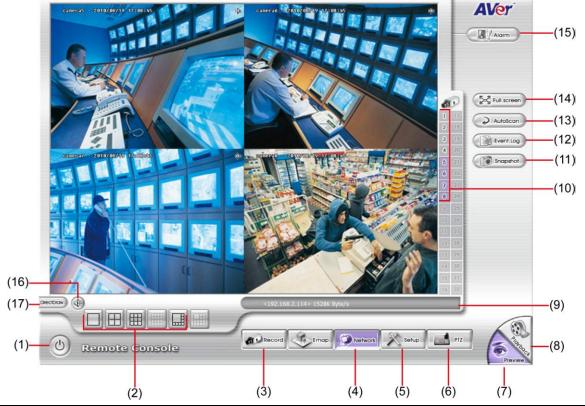
Send to CMS (Central Management System)

-

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.

🛃 CMS S	etting							×
Transr	nitting C	ameras						
1	2	_з	4	5	6	7	8	
9	10	11	12	13	14	15	16	
			(Oł			ancel	

6.2 Familiarizing the Buttons in Remote Console



Name	Function
(1) Exit	Close the Remote Console.
(2) Split Screen Mode	Select from four(4) different split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen. If there are only 8 cameras, you won't be able to switch to 13 and 16 split screen mode.
(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 6.2.1)
(6) PTZ	Call out PTZ control panel (see <u>Chapter 6.2.2</u>).
(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 <u>Chapter</u> <u>6.3</u>)
(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) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.
(12) Event Log	Display the Event logs, Operation logs, System logs, and Network logs.
(13) Auto Scan	Enable/disable channel switch cycle.
(14) Full screen	Use the entire area of the screen to only display the video. To return, Right-click the mouse or press ESC on the keyboard.
(15) Alarm	Alert and display warning info.
(16) Audio button	Enable/disable the sound.
(17) DirectDraw	Enhance the video quality.

96

6.2.1 To Setup Remote Console Setting

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

	Folder Name C:\RemoteData	Free Space 13.34G	Disk Space(Used) 40.00G(0.01G)
	Enable network s	Add	Delete
(2)——	Language System Language	English	~
	Remote Server	IP Addre	ess Port
	Default	10.1.2.	
		Add	Delete

(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.



(2) Language

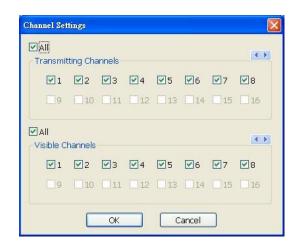
Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.

(3) Remote Server

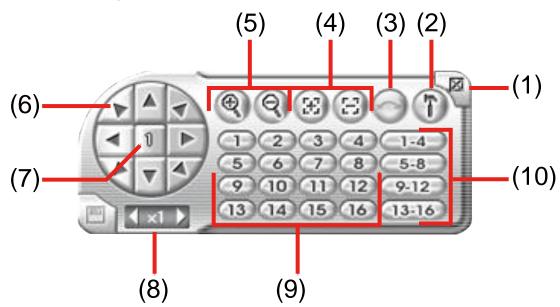
Enter the DVR Server IP and Server Port number.

(4) Channel Settings

The numbers from 1 to 16 represent the camera ID. In Transmitting Channels section, enable the camera number to receive the camera signal from the server. In Visible Channels section, enable the camera number to view the camera signal on Remote Console screen. To select all the cameras, enable the **ALL** check box.



6.2.2 Familiarizing the Buttons in PTZ Camera Controller



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

6.3 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.

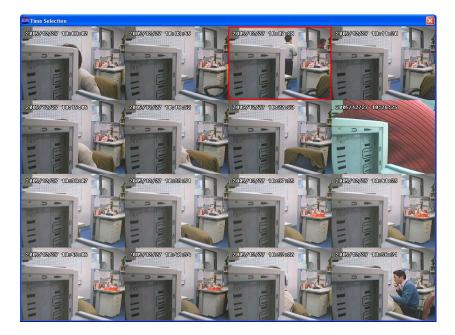
Select Playback M	lode
O Local Playbac	
⊙Download ar ○RealTime Pl	
ОК	Cancel

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 8 represent the camera number.

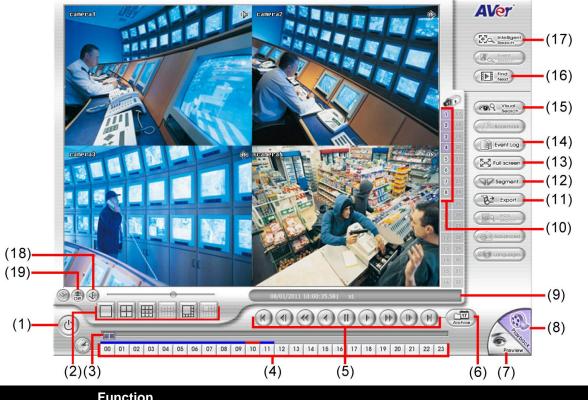
	Г		 August, 2010 							September, 2010 🕨							-25			OK		
			Sun		1		Thu		Sat	Sun	Mon	3		8		Sat				21	Cano	el
			25	26	27	28	29	30	31	Goli	- THOM	Tue	1	2	3	4				-		
			1	2	з	4	5	6	7	5	6	7	8	9	10	11						
			8	9	10	11	12	13	14	12	13	14	15	16	17	18						
			15	16	17	18	Ð	20	21	19	20	21	22	23	24	25						
			22	23	24	25	26	27	28	26	27	28	29	30	1	2						
			29	30	31					3	4	5	6	7	8	9						
											0							_				
		Г																	-	-		
		00	01	02	03 0	4 0	5 06	07	08	09 1	0 11	12	13	14	15	16 1	7 18	19	20	21	22	2
Г	01																Ű.	8. 	9% 70	22 22	22. 24	82 20
	02																					
	03	-	2.4			1					1.1						24 - S	23) 72			92. 94	
	04																					
	05																					
	06																					
	07																					
	08																					
ľ	09																-	8		83 	2) 	
	10			-	-	-		-	-			1						1				
	11					2	10		20		2						22					
	12			-	-	-									-							
	13	22	2	2		- 25	22	8	23	2 2î	2	22	8	9. 	8	2 2	22	23	93. 	2	2	
	14	-	50	-	-	-	-	-	6		-	1	-	-	-	-	-	-		-	-	
	15	22	S.	2		22	22	8	22	<u> - 2</u>	×.		8	8	0	2	22	20	22	8	S.	
						125	120	125	12	te te	26	10	125	126	e 20	100	26	1.8	24	12	26	10

To Make a Selection:

- 1. Select the date in the calendar. Use I and I 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.
- 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 <u>Chapter 6.4.3</u>).



6.3.1 Familiarizing the Buttons in Local Playback



Name	Function					
(1) Exit	To close the application					
(2) Split Screen Mode	Select from four(4) different split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.					
 To zoom in a 	only 8 cameras enabled, you won't be able to switch to 13 and 16 split screen mode. In area on the screen, Right click and Drag a square on the area you want to enlarge. To back to right click the channel screen again.					
(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.					
is a recorded v	ons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there ideo file on that period of time. If there is no recorded data within the hour, there will be no color bar bour button. While the red bar indicates that you are currently viewing the recorded video file.					

	Begin: Move at the beginning of 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 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 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. Day Light Saving: Mark it to only show the recorded data during the day light saving period. Channel 01~16/Channel 17~32: Click it to switch between channel group 1~16 and 17 ~32 of recorded data calendar. Open File: To open the recorded file from other direction/storage path.
	C Council 10 September; 2010 C Council 10 Council 10 Council 10 Council 10 Council 10 Council 10

(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	Export includes Snapshot, Print, and Output Video Clip function.
	Snapshot: Capture and save the screen shot either in *.jpg format.
	Print: Print the screen shot.
	Output Video Clip: Save the segmented file in *.dvr format (see also <u>Chapter 6.3.1.1</u>).
(12) Segment	Keep a portion of the recorded video you want (see also Chapter 6.3.1.1).
(13) Full screen	View in Playback-compact mode. To return, press the right button of the mouse or 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 (also see <u>Chapter 4.3.5</u>).
(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 <u>Chapter 4.3.7</u>).
(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.

6.3.1.1 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.

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

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.

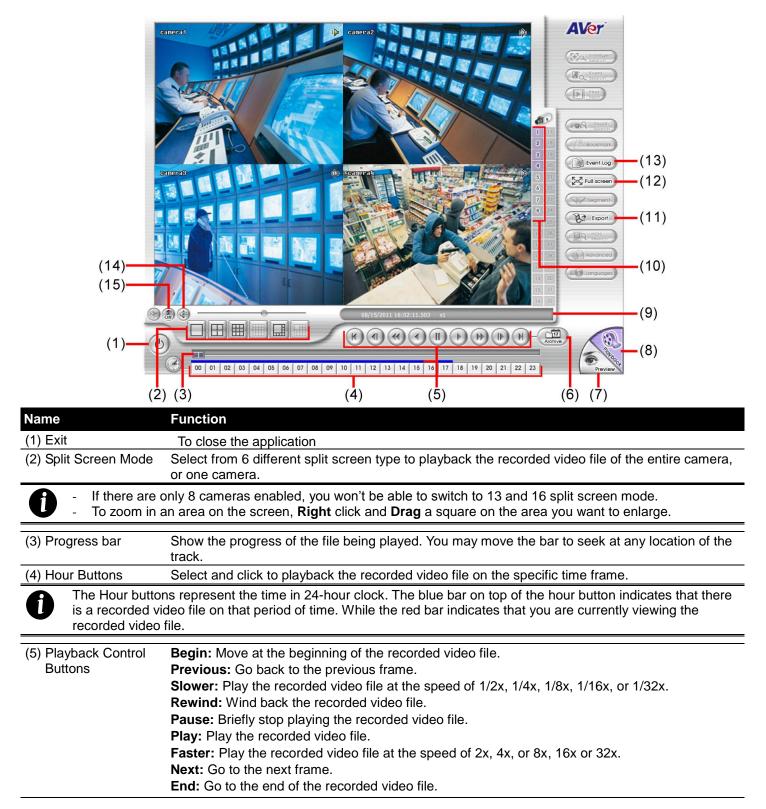
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

3. Click **Export > Output Video Clip** button to save the wanted clip.

- 4. In the Save As dialog box, locate on where you want to save the file or choose to **Burn** the video segment to VCD/DVD ROM (only for .*mpeg file format).
- 5. Select the file type and select the camera information display position when playback. The camera information will be the information of server name that user has defined in Network Setting.
- 6. If the select the file type is *.avi, user can mark included audio to include audio in output video segment.
- 7. To adjust Video Quality if needed.
- 8. And, select the **Optimize for speed** for faster file opened. For saving storage, select **Optimize for storage**.
- 9. Click **Save** to save the video segment.

Save As				×
Save in: 퉬 test	-	G 🤌 📂 🛄 🗸		
Name	*	Date modified	Туре	Size
	No items	match your search.		
	_22_16_0_1			Save
Save as type: AVI File	s (*.avi)			▼ Cancel
Include audio				
Video Quality:	0	70		
√ show camera infoma	ation			
Text Alignment				
Right-Top	Right-Bottom			
Ieft-Top Right-Top	 Left-Bottom Right-Bottom 			

6.3.2 Familiarizing the Buttons in RealTime Playback



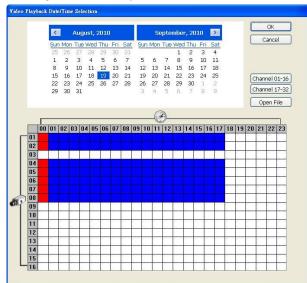
Name

(6) Archive

Function

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

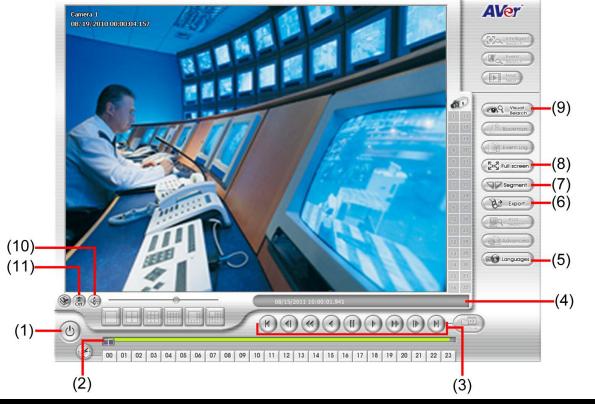
- **Channel 01~16/Channel 17~32:** Click it to switch between channel group 1~16 and 17 ~32 of recorded data calendar.
 - Open File: To open the recorded file from other direction/storage path.



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

(7) Preview	Switch to Preview mode.
(8) Playback	Switch to Playback mode. This allows you to view the recorded video file.
(9) Status bar	Display the recorded date, time and play speed.
(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 ESC on the keyboard. When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.
(13) Event Log	Show the record of activities that take place in the system
(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 select #2, if it captures lots of movement.

6.3.3 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) Playback Control	Begin: Move at the beginning of the recorded video file.
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, 16x or 32x.
	Next: Go to the next frame.
	End: Go to the end of the recorded video file.
(4) Status bar	Display the recorded date, time and play speed.
(5) Language	Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.
(6) Export	Export includes Snapshot, Print, and Output Video Clip function.
	Snapshot: Capture and save the screen shot either in *.jpg or *.bmp format.
	Print: Print the screen shot.
	 Output Video Clip: Save the segmented file in *.mpg, *.avi, or *.dvr format (see also <u>Chapter</u> <u>6.3.1.1</u>).
(7) Segment	Keep a portion of the recorded video you want (see also Chapter 6.3.1.1).
(8) Full screen	View in Playback-compact mode. To return, press the right button of the mouse or ESC on the keyboard.
	When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.
(9) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second. (See also <u>Chapter</u> <u>4.3.5</u>).
(10) Audio	Enable/disable volume
(11) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and select #2, if it captures lots of movement.

Chapter 7 Using Mobile Device to Access DVR Server

7.1 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 PDAViewer software either thru ActiveSync connection or download it from the internet. Please check if your PDA meets the 2 requirements below.

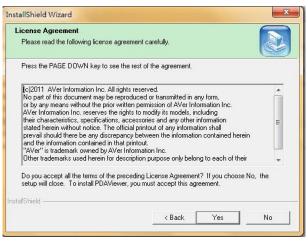
OS: MS Windows CE 4.0, PocketPC 2002/2003, Mobile 5 PDA version CPU: ARM architecture

7.1.1 To Install PDAViewer thru ActiveSync

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

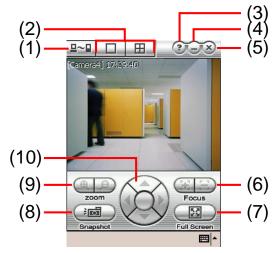


- 2. Click **Next** to continue.
- 3. Read the license agreement and click **Yes** to accept all the terms. The system will then automatically install the application.



7.1.2 To Use the PDAViewer

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



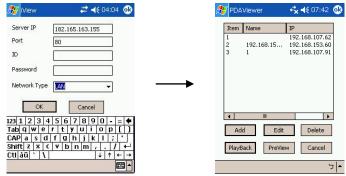
Name Function

(1) Connect

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



Enter the server IP, port, user ID, password and select the connection type. Then, click OK.



User can playback the recorded video from remote DVR server in PDAViewer.(see also Chapter 7.1.3)

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

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



- 4. User also can view and change status of I/O devices.
- 5. On the preview screen, tap on video screen longer the pop up menu will appear.
- 6. Select the **Remote IO**.



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



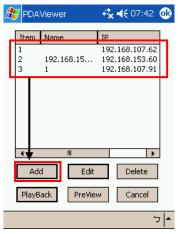
8. User can change the relay status. Select the relay and tap on video screen longer the popup menu will appear, and then, select the status (ON, OFF, Tigger)

7.1.3 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.

🎥 PDAViewer 💦 😽 📢 07:40 🕬	۵
CameraID Camera 1 👻	
[Playback Date and Time]	
2007 ▼ 7/ 3 ▼ m/ 21 ▼ d	
19 v h/ 0 v m/ 0 v s	
PlayBack Cancel	
¢	· •

7.2 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.

7.2.1 To install JavaViewer from the DVR Server

- 1. Open the web browser and enter the DVR server IP (http://DVR server IP: port/Java-Viewer.html). Then click **Connect**.
- 2. When the Download screen appears, select Java-Viewer.jad and download it to your mobile phone.
- 3. After the installation, the 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.

7.2.2 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. If the camera has enabled PTZ function, the camera name has a word "PTZ". Using button 2 to move PTZ camera up, 8 to move down, 4 to move to left, 6 to move to right, 7 to zoom in, 9 to zoom out, 1 to focus in, and 3 to focus out. User also can refer to Help file for detail function control key. Select menu and go the way down to select the Help file.





Chapter 8 Using the 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 Tool**. In selection window, user can select the application(Rmote iSetup, Remote iBackup) to install.



8.1 Remote iSetup

Remote iSetup 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 **Install Web Tools** and select **Remote iSetup** to install. After installation, click **Iset application** to start the Remote iSetup application.

8.1.1 To Add DVR server

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

#	Name	IP	Port	Channel	Description	Status	Add
							Remove
							Modify
							Connect
							Remote Function:
							Setup
							Language
							English
							Import
							Import
							Export
							About
							Exit

- 1. Click Add
- 2. In Edit DVR windows, 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 PCViewer 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

Remote DVR	
Name	DVR 01
IP Address	
Port	80
User ID	
Password	
Description	
	OK Cancel

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

8.1.2 To Setup Remote System Setting

The setting here applies to Remote DVR only. The detail configuration refer to Chapter 6.1.3.

8.2 Remote iBackup

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

0

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

8.2.1 To back up the recoded data from the DVR server

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

Add	Enable Backup	Backup Mode	Туре	Status	Progress	Chann	PORT	IP	Name	¥
Delete										
Modify										
Manual Backu										
File Select										
Language										
English										
Burn										
Start										
ReConnect										

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

DVR Setting							
Name	DV	R 01					
IP	127	7.0.0.1		User ID			
Port	80			Password			
💿 Auto Backu	цр						
Storage Pat							
Folder Na				Free Space		Disk Space(Used)	
C:\Auto_B	ackup			9.49G		40.00G	
Begin Date	L	9/24/2010	~	Schedule	Ar	dd	Delete
⊖ Manual Ba	ckup						
Storage Pat	h						
C:\Manua	al_Backı	ıp					
-							Browse
					(ОК	Cancel

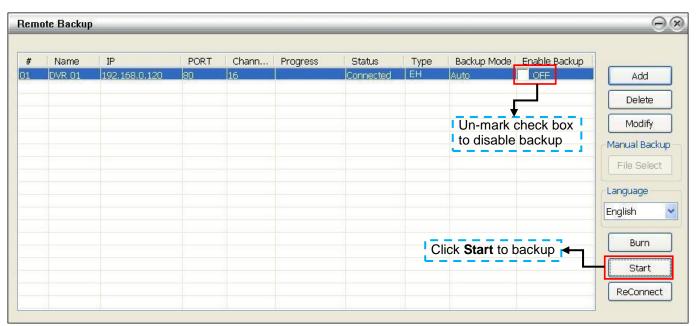
5. Select the Backup mode:

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

- In Begin Date drop down calendar, select the date from where to start
- Click Add to set the storage path.
- Click Delete to remove the selected storage path.
- Click **Schedule** to select/unselect the time you want to backup. The red block turns white when it is unselected.
- Enable/disable **Disk Recycle** check box, to automatically overwrite the oldest file when there is not enough free space to backup the file.

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

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



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

#	Name	IP	PORT	Chann	Progress	Status	Туре	Backup Mode	Enable Backup	
)1	DVR 01	192.168.0.120	80	16	Ch3 -> 4 %] Connected	EH	Auto	✓ ON	Add
										Delete
										Modify
										- Manual Backu
										File Select
										Language
										English
						While to turn to		, the Start bu utton	itton will	Burn
									'	Stop

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

#	Name	IP	PORT	Chann	Progress	Status	Туре	Backup Mode	Enable Backup	
01	DVR 01	192.168.0.120	80	16	Finish	Connected	EH	Manual	✓ ON	Add
										Delete
										Modify
										Manual Backu
										File Select
										Language
										English
										Burn
										Stop
										ReConnect

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

- User Login

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

U	lser Login		
CD-Key No. Product	IK Reset	*]
	I Haber		

 First input the MAC Address in CD-Key No. column and select the product name. Then click OK to login or Reset to clear the previous input.



To find the MAC address of the DVR, click **Setup** > **Network** in preview mode UI. And then, click **Setting** of the Main Configuration and user should see the **MAC address** in IP Information section.

O Using the follo	owing IP address	PPPOE		
 Obtain an IP a 	utomatically(DHCP)	User ID		
O PPPOE		Password		
IP Information -				
IP	10.1.2.94			
Mask	255.255.255.0	Domain Name		
Gateway	10.1.2.254	Password DDNS Server Name	ddns.avers.com.tw	
DNS	10.1.1.57	DDING Server Maine	duris.avers.com.tw	V
MAC Address	00:50:43:81:81:a3	DDNS Server Port	1053	

User also can find the MAC address at rear panel of the DVR unit.

- 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.

User Information		
Host Name Domain Name		*
Password		*
Confirm Password		*
E_mail		*
Company		
Country	Taiwan	•
OK Reset		

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

Appendix B Network Service Port

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

	Port#	Variable
Remote Console	5550	Y
PCViewer	80	Y
СМ3000	80	Y
Firmware Update	5005	Y
DVR DDNS (Upload / Download)	53/1053	N

WARRANTY NOTICE

LIMITED WARRANTY

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

WARRANTY LENGTH

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

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

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

WHO IS PROTECTED

This warranty is enforceable only by the first consumer purchaser

WHAT IS AND IS NOT COVERED

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

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

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

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

Any shipment damages (Claims must be made with carrier)

Any other cause which does not relate to a product defect

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

WHAT WE WILL AND WILL NOT PAY FOR

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

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

EXCLUSION OF DAMAGES

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

LIMITATIONS OF IMPLIED WARRANTIES

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

STATE LAW AND YOUR WARRANTY

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

CONTACT INFORMATION

Taiwan & International 5F No. 135, Jian Yi Rd., Chung Ho City, Taipei, Taiwan TEL: 886-2-2226-3630 FAX: 886-2-2226-7241 Web Site: <u>http://surveillance.aver.com/</u>