AVerMedia[®] AVerDiGi EB3004 NET EB3004 NET⁺

User Manual

FCC NOTICE (Class B)



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 B 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.

European Community Compliance Statement (Class B)

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

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Battery Safety Information

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



WARNING

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



CAUTION

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

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LIGHTNING WARNING

- TO AVOID THE LIGHTNING STRIKE, STRONGLY SUGGEST INSTALLING THE LIGHTNING ROD AT LIGHTNING FREQUENTLY AREA.
- FOR ADDED PROTECTION, UNPLUG THE DVR UNIT DURING THE LIGHTNING STORM. THIS MAY PREVENT TO DAMAGE THE DVR UNIT DUE TO THE LIGHTNING.

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INTRODUCTION



1.1 Package Content



(7) Internal HDD holder (8 screws are included)

1.2 Front Panel

1.2.1 EB3004 NET



Name	Function		
(1) DVR Power LED	Light when the unit is power on		
(2) HDD LED 🗎	Indicate the hard disk running state. Light when the HDD is running (Read/Write)		
(3) IR Sensor	Receive signal from the remote control to operate the unit		
(4) IR Sensor Port	To connect extended IR sensor cable(optional)		
(5) USB Mouse Port	For USB mouse connection.		
(6) USB 2.0 Port	Connect to pen drive / external hard disk for backup		
	If the external hard disk is first time using, please format to FAT32 format.		

1.2.2 EB3004 NET⁺



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(6) USB 2.0 Port	Connect to pen drive / external hard disk for backup				
	If the external hard disk is first time using, please format to FAT32 format.				
(6) 1/2/3/4/QUAD	Use these buttons in playback mode to switch to display each channel in full screen or view all channels at the same time				
	Channel 1 Channel 2 Channel 3 Channel 4 QUAD				
(7) Record REC	Start video recording. To stop recording, press				
(8) Menu	Call up and exit the OSD main and sub menu				
(9) UP/DOWN/SELECT	Use the UP and DOWN buttons to change setting and move to the left and right, and SELECT to enter or make a selection				
(10) Playback/OSD Menu	Use the buttons in playback mode to:				
Control Buttons	Display the play list and play the recorded video				
	Wind back the video playback at the speed of 2x, 4x, 8x or 16x				
	Fast play the video playback at the speed of 2x, 4x, 8x or 16x				
	Temporarily freeze the video playback				
	Stop video playback				

1.3 Back Panel



Name	Function				
(1) LAN port	For Ethernet connection.				
(2) CH1/CH2/CH3/CH4	Input the video camera signal and display it on channel 1/2/3/4				
(3) TV Out	Output the video signal to other video output device through BNC port				
	When only connect one output device, please must set TV-VGA output order to MAIN-MAIN in <i>DISPLAY SETUP</i> (see also <u>VGA-TV SELECTION</u> in <u>Chapter 3.1</u>).				
(4) VGA OUT	Output the video signal to a CRT or LCD monitor				
	When only connect one output device, please must set TV-VGA output order to MAIN-MAIN in <i>DISPLAY SETUP</i> (see also <u>VGA-TV SELECTION</u> in <u>Chapter 3.1</u>).				
(5) Audio In/Out	For 4 * audio input (microphone) and 1 * output(speaker) device connection.				
	The audio input and output device has its own power supply is required.				
(6) Sensor In	Support 4 sensor devices				
(7) Alarm Out	Support 1 relay device (Relay: 1A @ 125V AC/30V DC)				
(8) RS-485 For PTZ camera connection.					
(9) FAN speed Switch	Adjust fan speed(High/Low) according to the actual environment situation				
	We do strong recommend that adjust the fan speed to High when the operating environment is over 40 $^\circ\!\!C.$				
(10)12V DC	V DC Power cable connection				

1.4 Setting Up the DVR Unit

1.4.1 Installing the Hard Disk



For hard disk spec, please referring to <u>http://www.avermedia.com/AVerDiGi/Product/</u> \rightarrow Embedded Analog DVR \rightarrow AVerDiGi EB3004 NET or AVerDiGi EB3004 NET⁺ \rightarrow Hardware Recommendations

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

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

1. Loosen all screws





3. Secure the brackets on the hard disk



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



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





7. You may now connect all the cables. When the power is connected, the Power LED light $-\dot{\Box}$ turns on

1.4.2 Connecting Devices

The back panel of the DVR unit, user can connect up to 4 video cameras, 4 sensor devices, 1 alarm device and output video to a TV or CRT/LCD monitor. Also, the DVR unit supports 4 audio input devices and 1 audio output device. Using the bundled software enables user to playback and segment the video. Follow the illustration below to make the connection:



Each time you change the video display output or video system (NTSC/PAL), the power must be turned **off** and **on** to reset the DVR unit.

1.4.3 Connecting the Audio, Sensor and Relay device

The Sensor, Alarm, and audio port enable you to connect 4 sensor inputs, 1 relay outputs, 4 audio in devices and 1 audio out device. Just connect the external sensor, relay, and audio in/out device pin directly to the pinhole. The RS485 port can be used for PTZ camera connection.

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



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

Audio in and out pinhole:

Pin #	Definition
1	Audio input signal
2	Audio Ground signal
3	Audio input signal
4	Audio Ground signal
5	Audio input signal
6	Audio Ground signal
7	Audio input signal
8	Audio Ground signal
9	Audio output signal
10	Audio Ground signal

Sensor in and Alarm pinhole:

Pin #	Definition			
11	Sensor 1 signal			
12	Sensor 1 Ground signal			
13	Sensor 2 signal			
14	Sensor 2 Ground signal			
15	Sensor 3 signal			
16 Sensor 3 Ground signal				
17	Sensor 4 signal			
18	Sensor 4 Ground signal			
19 Relay signal				
20 Relay signal				

RS-485 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
21 TX+ RS485 TX+ signal RS485 RX+ signal 22 TX- RS485 TX- signal RS485 RX- signal			RS485 RX+ signal
22 TX- RS485 TX- signal RS485 RX- signal			RS485 RX- signal
23	23 RX+ RS485 RX+ signal RS485 TX+ signal		RS485 TX+ signal
24 RX- RS485 RX- signal RS485 TX- 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.

OPERATING THE DVR UNIT



2.1 Familiarizing the Remote Control Buttons

Use the Remote control to operate the OSD menu on surveillance screen.



Buttor	1	Function
(9)		To move up the selection and select the items in the menu list or change the settings.
(10)		Make a selection To play the video
(10)	•	Enter sub-menu
(11)		To move the selection to the left
(12)		To move the selection to the right
(13)	~	To move down the selection and select the items in the menu list or change the settings.
(14)	REC	Start video recording
(15)	E	To backup the vido segment to external flash memory (See $2.1.2$).

Butto	n	Function
(16)	A-B	Set a playing recorded video from A point to B point segment and repeat playing on surveillance screen(See <u>2.1.1</u>)
		Fast play the video playback at the speed of 2x, 4x, 8x ,16x, 32x, or 64x
		When II button has pressed, and press () can go to next frame
(17)		To start play recorded file / To enter playback menu
()		Rewide the video playback at the speed of 2x, 4x, 8x ,16x, 32x, or 64x
		When 🕕 button has pressed, and press ┥ can go back to last frame
		Pause the playing
(18)		To zoom in view of PTZ camera
(10)	ZOOM-	To zoom out view of PTZ camera
(19)	PTZ	PTZ camera control button. Press (PTZ) + camera channel button((1E) 2 (3E) 4)can enter
(10)		PTZ mode to control PTZ camera.(see Chapter 2.1.3)
(20)	SPEED+	To speed up movement of PTZ camera lens
(20)	SPEED-	To speed down movement of PTZ camera lens
(21)	FOCUS+	To focus in PTZ camera lens
(21)	FOCUS	To focus out PTZ camera lens
(22)		Stop playing / Stop recording

2.1.1 Using AB Repeat Function

AB Repeat function allow user to set a video segment from A to B point and play on the surveillance screen until user stop.

- 1. Press **b** to call out the **SEARCH MODE** menu to find the recorded video that user wants to playback.
- 2. Select TIME SEARCH, FILE LIST, or MOTION SEARCH.
 - **TIME SEARCH** (search by date and time): select the date and time from where you want to begin the video playback.
 - FILE LIST: select from the file list.
 - **MOTION SEARCH** (search by motion area): select an area to do the motion search.
- 3. During the playback, press (A-B) to set the A point of video segment. And then, press (A-B) again to set the B point of video segment. On the surveillance screen will display "A-B" and repeat playing the AB point video segment which user has set. To cancel AB repeat, press (A-B) again.



2.1.2 Using USB Backup Button

User can press is button to backup the AB segment video file.

KUP SETUP
2009 / 11 / 03 14 : 50 : 10 2009 / 11 / 03 14 : 52 : 10 ☑1 ☑2 ☑3 ☑4 ~4 MB

- 1. Plug in pen drive or external hard disk to DVR system.
- 2. Set the AB segment video (see Chapter 2.1.1).
- 3. During the AB segment video playback, press 🖾 button.
- 4. Select the **START** time of backup time by pressing the J button, using A and T to setup the date and time. To confirm the value or selection, press J.
- 5. Select the END to set the end of backup time. Press
 and
 and
 and
 and
 to setup the date and time. To confirm the value or selection, press
 .
- 6. Select the **BACKUP CH** to setup the channel that user wants to backup. Press () and use

 \bullet and \checkmark to select the channel.

- 7. Select the **BACKUP SIZE** to calculate the total size of backup file.
- 8. Select the **BACKUP** and press () to start backup.
- When backup confirm message appear, press (YES) to start backup file or press (NO) to exit backup mode.

If the external hard disk is first time using, please format to FAT32 format.

2.1.2.1 To Playback the AVF Format File

After recorder file back to external flash memory, user can playback the backup file by AVF Player that contains in backup folder when backup.

- 1. Double click the **AVF Player.exe**(**V**) to run the application.
- 2. Click Open File button from AVF Player UI.
- 3. Click **Select File** to locate the backup file and select the file to playback. Click **OK** to start playback.

Select Fl	oder ect Floder			
	09_11_03_11 09_11_03_11			_
	ОК	Cance	I	

4. The selected file will be playback on AVF Player UI.



2.1.3 Controlling PTZ Camera

Using remote control, user can easily control PTZ camera at local site. Before starting, make sure the PTZ camera is connected with the DVR unit and PTZ function is enabled(see also <u>PTZ Setup</u> of <u>Chapter 3.1</u>).

2.1.3.1 To Enter the PTZ Mode

To control PTZ camera, user need to enter the PTZ mode first. Press PTZ button, and camera channel number button (1 = 2 3 = 4). The surveillance monitor will switch to single screen PTZ mode.



To exit PTZ mode, press D button. Also, when the DVR system is idle over 1 minute, the DVR system will automatically exit PTZ mode.

2.1.3.2 To Set Preset Position

User can set 9 preset positions for PTZ camera. Using (18) to (98) button to set the preset position.

- 1. Press (PTZ) and camera channel number button (1 E 2 3 E 4) to enter PTZ mode.
- 2. Using , , , and to adjust the lens of the PTZ camera to the position that user

wants.

- 3. Press any number button over 3 seconds and the position will be saved.
- 4. To move the PTZ camera to preset position, just press the number button.

2.1.3.3 Controlling the PTZ Camera

To move, adjust focus, and zoom in/out camera lens can be done by using some function buttons on the remote control.



2.2 Using the DVR for the First Time

- 1. Make sure all devices and power cables are well connected.
- 2. Turn on the DVR unit by connecting the power cable into the power plug.
- 3. User should see the **SYSTEM INITIALIZE** window appear on the surveillance screen. The system will do hard disk detection automatically.
- 4. For the first time use hard disk, please format the hard disk. Select **HDD FORMAT** and press
 - (YES) to format hard disk. If hard disk doesn't need to format, press ((NO)).
- 5. When is done, **HDD FORMAT** will show **COMPLETE**.

S	YSTEM INITIALIZE	SYSTEM INITIALIZE
FW VERSION HDD STATUS HDD SIZE HDD FORMAT	B3. 01. 01. 00. 01 WAIT 476 . 918MB YES(SELECT)/NO(MENU)	FW VERSION B3. 01. 01. 00. 01 HDD STATUS WAIT HDD SIZE 476. 918MB HDD FORMAT COMPLETE

- 6. When hard disk format is done, please adjust the system date and time in order to have the correct recording date and time.
- 7. Press \square to call up the OSD menu, and then, use \checkmark and \checkmark to select **SYSTEM** \rightarrow

DATE/TIME and press (Job make a selection.

- 8. Press (and use (and (to select the DATE FORMAT.
- 9. And then, adjust the **DATE** and **TIME** by using

and **v** to adjust the date and time.

DATE FORMAT	YYYY/MM/DD
DATE	2009 / 11 / 03
TIME	15 : 19 : 09
TIME SYNC	
FORCE SYNC	0
TIME ZONE	GMT +08 : 00
LAST SYNC TIME	2009/01/01 00:00:00
DAYLIGHT SAVING	
START	2009/01/01 00:00:00
END	2009/01/01 00:00:00
OFFSET	00:00
OFFSET	00:00

10. When is done, the DVR system is ready to record.

2.3 Surveillance Screen Introduction

This chapter will describe the symbols on the surveillance screen and screen display mode. While DVR is playback, the record action will keep working and the surveillance screen is playback the recorded video.



Surveillance Screen

Preview Mode

Symbol	Description
	DVR is recording
D	Audio is enabled
•	Speaker is available
×.	Motion Detection
HDD 5%	Hard disk capacity
Q	Hard disk overwrite is enabled
0 1	Network is connected

Playback Mode

= Flay	
Symbol	Description
•	Playback the recorded video
	Go back to the last frame button is pressed
-	Go to next frame button is pressed
	The pause the playing button is pressed
₽	Audio is enabled
A-B	AB segment is set and playing
«	Recorded video is playback at backward speed(2x, 4x, 8x, 16x, 32x, or 64x)
»	Recorded video is playback at faster forward speed(2x, 4x, 8x, 16x, 32x, or 64x)
Α	Always Recording
В	Button Recording
L	Alarm Recording

Screen Display Mode

User can switch to display each channel in full screen or 4 channels in **D1**, **D1 ENHANCE**, or **CIF** record mode.



Full Screen Mode

QUAD Screen Mode

When you are in full screen preview, press the following buttons on the remote control and control panel to switch to different channel, or preview all 4 channels:



3⊞



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CH1: Camera 1

CH2: Camera 2

CH3: Camera 3

CH4: Camera 4 C

2.3.1 Setup the Time Stamp

By enabling **TIME STAMP** function, current date and time will be displayed on each channel screen to verify the recording date and time. Please follow the below steps to enable **TIME STAMP**.

- 1. Press (III) to call out OSD menu.
- Using A and T to move the highlight to CAMERA/RECORD and press T to make a selection.
- 3. Select **GENERAL** and press (Job make a selection.
- 4. And then, select **TIME STAMP** by pressing (J button.
- 5. Using A and T to select the disable/enable of TIME STAMP and press or

to confirm.

GENERAL SETUP				
RECORD MODE DVR NAME TIME STAMP WATERMARK AUTO RECORD PRE RECORD	CIF COMPANY I O 00 SEC			

- 6. Press (11) to exit from OSD menu.
- 7. The current date and time will display on upper right corner of each channel screen and will be recorded.



2.3.2 Playback the Video

If the unit is recording the video, user don't have to stop video recording.

- 1. Press () (play).
- Use the A and V buttons to go up and down and select TIME SEARCH, FILE LIST, or SMART MOTION SEARCH. And then, press V to make a selection.



TIME SEARCH (search by date and time):

- 1. In TIME SEARCH window, the **START TIME** and **END TIME** show the date and time from when the recording begins and ends.
- 2. Press I and use the A and V buttons to set the **SEARCH TIME**.
- 3. After **SEARCH TIME** has set, select **SEARCH EXECUTION** and press + to start searching.
- 4. When the playback file is found, the DVR system will start playback automatically.

FILE LIST (search by condition):

- In FILE LIST window, press and use and use and use buttons to set the date and time for searching. And then, select the **EXECUTION** to start searching.
- The searching result will be list out. Using A and V
 buttons to go up and down and press V to make a selection.
- After make a selection, the FILE LIST of each channel will list out.
 Use and buttons to the selection and press
 to make a selection.
- 4. The selected event will start to playback.

TI	ME SEA	RCH
START	TIME:	2009/01/09 11:36:21
END	TIME:	2009/01/09 11:36:21
SEARCH TIME	:	2009/01/09 11:36:21
SEARCH EXECUTION		

		FILE LIST		
MULTITIME	SEARCH :	2009/01/09	11:36:21	EXECUTION
2009/05/09	10:10:00	- 10:37:06		
2009/05/09	10:09:10	- 10:09:45		
2009/05/09	10:08:21	- 10:08:27		
2009/05/09	10:07:26	- 10:08:03		
2009/05/09	09:50:30	- 09:59:59		
2009/05/09	09:45:07	- 10:45:49		
2009/05/09	09:00:00	- 09:43:48		
2009/05/09	09:00:00	- 08:37:06		
2009/05/09	08:00:00	- 08:59:59		
2009/05/09	07:30:31	- 07:59:59		
	•			1/7



SMART MOTION SEARCH (search by motion event):

- 1. In SMART MOTION SEARCH window, the **START TIME** and **END TIME** show the date and time from when the recording begins and ends.
- 2. Use A and Press I to set SEARCH START TIME and SEARCH END TIME for searching period.
- 3. Then, Select the CHANNEL that wants to search.

SMART	MOTION SEARCH
START END	TIME: 2009/11/01 11:36:21 TIME: 2009/11/02 11:36:21
SEARCH START TIME	2009/11/01 11:36:21
SEARCH END TIME CHANNEL	: 2009 / 11 / 02 11:36:21 : 01
SEARCH AREA SEARCH EXECUTION	

4. And then, select SEARCH AREA to mark an area to search. Use

the , , , , , , , and to move the block and

press (J) or (A-B) to confirm. To exit, press

- 5. To start searching, select the **SEARCH EXECUTION**.
- 6. After make a selection, the DVR system will start playback automatically.



SEARCH AREA SETUP SCREEN

Listed below are the symbols of recording condition that will display on surveillance screen while playback mode and record mode:

A – Always Recording

It records non-stop and automatically continue recording when interrupted.

L – Alarm Recording

It records when the alarm has activated.

- **B** Button Recording
- It records when the **REC** record button is pressed.

The " ▶ " play symbol would appear beside the channel number when you are in playback mode.

OSD NAVIGATION TREE

The following figure is an OSD menu tree map. To call out the OSD menu, press

CHAPTER







3.1 Menu Function

MAIN MENU

Use remote control to navigate in the OSD menu. The red frame turns yellow when you are making a selection.



DISPLAY SCHEDULE

Each time you change the video display output or video system (NTSC/PAL), the power must be turned **off** and **on** to reset the DVR unit.

OSD MENU

CAMERA/RECORD

EVENT SETUP STORAGE

NETWORK SYSTEM

Description CAMERA/RECORD SETUP

Configure camera parameters, name and PTZ camera.



GENERAL SETUP



RECORD MODE

Three type of recording mode -- D1/CIF/D1 Enhance.

Under **D1** mode, the total recording frame rate is **60/50fps** (NTSC/PAL). The video recording is in full screen resolution and takes turns from one channel to the next one when **Auto Scan** enables. Each channel is recorded only at a maximum frame rate of 30/25 fps (NTSC/PAL). User can switch to view the video in single full screen or QUAD screen.

In **D1 ENHANCE** mode, the total recording frame rate is **30/25fps** (NTSC/PAL). Each channel can be recorded at a maximum frame rate of 30/25 fps (NTSC/PAL).

Whereas in **CIF** mode, the total recording frame rate is **120/100fps** (NTSC/PAL). The video recording is at a lower resolution, but all channels can be recorded at a maximum frame rate of 30/25 fps (NTSC/PAL). User can switch to view the video in single full screen or QUAD screen.

DVR NAME

Assign a name for the DVR unit. Maximum is 10 characters that may contain A~Z, 0~9, !, ", #, \$, %, &, ', (,), *, +, -, /, :, ;, <. >, ?, @, and space.

TIME STAMP

Enable/disable the time and date display on the each channel.

AUTO RECORD

Enable/disable auto continue recording when interrupted (i.e., power breakdown, video playback or configuration setup). It starts to record after 5 seconds of idleness. This is applicable in Always Record mode.

OSD MENU

Current total fps

value that user

has set



Description

CHANNEL SETTING

Configure the parameters of each channel.

ENABLE

Enable/disable the channel to display the video on the surveillance screen. If the channel is disabled, there won't be any video display and recording.

RECORD

h

Enable/disable the channel number to record video.

Total fps value that

user can set

The channels are enabled in the ENABLE can be set for video recording.

AUDIO RECORD

Enable/disable audio recording. To record sound, make sure the audio input device (ex: microphone) is connected to the DVR unit.

PREVIEW

Enable/disable the video preview on the surveillance screen.

MAX. FPS

Display the maximum frame rate of recording that user has set. Maximum fps total value depends on the RESOLUTION that user has chosen.

FPS

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

QUALITY

Select the video quality setting from BEST, HIGH, GOOD, MEDIUM, NORMAL or LOW. Choosing higher quality allows user to record less hours but the quality of the recorded video is better.

FPS(ALARM)

Set the number of frames per second to be recorded when alarm has occurred. The higher the frame rate, it uses more hard disk space.

QUALITY(ALARM)

Select the video quality (BEST, HIGH, GOOD, MEDIUM, NORMAL or LOW) of alarm recording. Choosing higher quality allows user to record less hours but the quality of the recorded video is better.

CAMERA NAME SETUP				
CH1 CAMERA1 CH2 CAMERA2 CH3 CAMERA3 CH4 CAMERA4	Give a name of the channel 1 ~ 4. Maximum is 12 characters and may contain A~Z, 0~9, !, ", #, \$, %, &, ', (,), *, +, -, /, :, ;, <. >, ?, @, and space.			
]			

OSD MENU

F	TZ SE	TUP		
ENABLE ID PROTOCOL BAUD RATE	CH1 □ 001	CH2 002 PELC 960		CH4 □ 004
AUTO PAN DWELL TIME	OFF 010S	0FF 010S	OFF 010S	OFF 010S

Description

PTZ SETUP

To enable PTZ camera control by remote control and setup PTZ camera parameters.

ENABLE

Select the channel of PTZ camera. If the PTZ camera is connecting on channel 1, then select the camera 1 for PTZ video to be display on channel 1.

ID

Assign an ID to PTZ camera. The ID range is from 000 to 255 but is limiting by protocol of PTZ camera. Please refer to your PTZ camera user's manual for more detail of PTZ ID assignment.



We suggest assigning PTZ camera ID starting from 5 to avoid conflict with ID of camera channels.

PROTOCOL

Select the protocol of PTZ camera. The protocol will be different that depends on the brand of PTZ camera. The DVR system currently supports 3 protocols — PELCO-D, PELCO-P, and CANON VC-C4R. Please refer to your PTZ camera user manual to make sure which protocol is using for.

BAUD RATE

To setup the baud rate of PTZ camera. For more detail, please refer to your PTZ camera's user manual.

AUTO PAN

Select the preset number to assign an auto move direction for the PTZ camera. For example: 1-4 means the PTZ camera will auto move from preset position 1, 2, 3 to 4 repeatly.

DWELL TIME

Set a time that how long the PTZ camera stays in that position before it moves to the next one.

DISPLAY

Configure the parameters of video and setting of spot monitor.



COLOR ADJUSTMENT

To adjust the brightness, contrast, hue, and saturation value of channel video. To reset the setting, select **RESET TO DEFAULT VALUE**.

COLOR ADJUSTMENT SETUP					
BRIGHTNESS CONTRAST HUE SATURATION RESET TO DEFAULT	CH1 124 121 001 054 O	CH2 124 121 001 054 0	CH3 124 121 001 054 0	CH4 124 121 001 054 O	

MAIN MENU CAMERA/RECORD DISPLAY SCHEDULE EVENT SETUP STORAGE NETWORK SYSTEM DISPLAY SETUP

COLOR ADJUSTMENT VIDEO OUT SETTING VIDEO SHIELD VGA - TV SELECTION SPOT MONITOR EVENT DURATION

SET DURATION AUTO SCAN MAIN - MAIN QUAD ADJUSTABLE 010 SEC

CH1

Description

VIDEO OUT SETTING

To select the sharpness, color enhancement, VGA mode, resolution of VGA and TV out setting.

SHARPNESS

Adjust the sharpness of VGA and TV video output.

COLOR ENHANCEMENT

Adjust the color enhancement of VGA and TV video output.

VGA MODE

Select the de-interlace mode for VGA output.

- Mode 1: Optimized for dynamic scene
- Mode 2: No de-interlace
- Mode 3: Optimized for static scene

RESOLUTION

Select the resolution of VGA video output.

- SVGA: 800 x 600
- XGA: 1024 x 768
- SXGA: 1280 x 1024

VIDEO SHIELD

Select the channel and set an area that will be blocking for particular security issue when DVR unit is recording such as enter password for entrance guard.



DISPLAY SETUP

COLOR ADJUSTMENT VIDEO OUT SETTING VIDEO SHIELD VGA - TV SELECTION SPOT MONITOR EVENT DURATION SET DURATION AUTO SCAN

CH1 MAIN - MAIN QUAD ADJUSTABLE 010 SEC

Description

VGA - TV SELECTION

Select the VGA and TV output order.

- MAIN MAIN: Both VGA and TV output surveillance video on screen.
- **MAIN SPOT:** VGA output surveillance video and TV output the alarm event video.
- **SPOT MAIN:** VGA output alarm event video and TV output the surveillance video.



When there is only one output source (TV or VGA), please select the output mode as **MAIN – MAIN**.

SPOT MONITOR

Enable/disable to display channel alarm event in QUAD screen mode or the selected channel (1, 2, 3, or 4) when the sensor is activated or motion is detected. When there is multiple alarm events, DVR system will display in QUAD screen mode.

EVENT DURATION

Select the way of the event video to be display.

- **STEADY:** When event has occurred, the event video will display on the screen. After event has been reset, the screen display will return to the normal display screen in few seconds later.
- **ADJUSTABLE:** the event video will be display according to the time that user has setup in **SET DURATION**. And then, after duration time, screen will return to the normal display screen.

SET DURATION

Set a period time (10 ~ 999 sec) for alarm event to display on screen.

AUTO SCAN

Enable/disable auto cycle switch to display the next channel when in full screen mode.

OSD MENU

MAIN MENU

CAMERA/RECORD DISPLAY SCHEDULE EVENT SETUP STORAGE NETWORK SYSTEM

Description

RECORD SCHEDULE

By default, in 24 hours, the recording schedule is set to always record every hour. Refer to the table below to customize the recording condition.

Condition	Description
NO RECORD	Not recording at all.
ALWAYS	Record non-stop.
SMART	Automatically switch to recorded at the frame rate of FPS (alarm) that is setup in CAMERA CHANNEL SETTING once an alarm is detected and if there is no motion, it records at the frame rate of FPS that is setup in CAMERA CHANNEL SETTING .
ALARM	Start recording when the alarm is activated.
VARIED	When each channel has different recording schedule, the schedule table will display as Green color (VARIED RECORD).

CAMERA

Select a channel (1, 2, 3, or 4) or ALL for record schedule setup.

SET TO ALL

Select a recording condition – **NO RECORD**, **ALAWAYS**, **SMART** or **ALARM**. Please refer to the above table for record condition description.





EVENT SETUP

ALARM SETTING SENSOR SETTING MOTION DETECTION

Description

ALARM SETTING

Configure parameters of alarm.

<u> </u>						
ALARM SETUP						
ALARM TYPE ALARM CONTINUOUSLY ALARM PERIOD SELECT/DESELECT ALL						
SENSOR MOTION DETECTION VIDEO LOSS REMOTE TRIGGER HDD FAIL		□2	□3	□4		

ALARM TYPE

Select the way of alarming - RECORD, EMAIL, or RELAY.

ALARM PERIOD

Set the amount of time (in seconds; $0\sim 999$) for stop alarm action after alarm has been reset.

ALARM CONTINUOUSLY

Enable/disable to execute the alarm action (**ALARM TYPE**) continuously when alarm has been trigger. The alarm action is according to the setting of **ALARM TYPE** that user has setup.



- When **ALARM CONTINUOUSLY** has been started, it won't be stop until the recording has been stop manually.
- If ALARM CONTINUOUSLY has been enabled, the ALARM PERIOD won't be able to configure.

SELECT/DESECLECT ALL

To enable/disable all below selections.

SENSOR

Enable/disable to send out the alarm when sensor has been triggered.

MOTION DETECTION

Enable/disable to send out the alarm when motion has been detected.



To activate the motion recording, please enable the **Motion Detection** feature here and setup record mode as **ALARM RECORD** in <u>RECORD SCHEDULE</u>.

VIDEO LOSS

Select the channel that will send out the alarm when video is lost.

REMOTE TIRGGER

Allow user to trigger alarm from remote site.

HDD FAIL

Enable/disable to send out alarm when hard disk is failed.

Description

SENSOR

Customize the initial state of the attached sensor.

ENABLE

Active/deactivate the sensor.

TYPE

Select the state of the sensor.

- **NO:** Indicates that the initial state of the sensor is normal open. Video recording initiates when there is a changes in the sensor state
- **NC:** Indicates that the initial state of the sensor is normal close. Video recording initiates when there is a changes in the sensor state

MOTION DETECTION SETUP					
	CH1	CH2	CH3	CH4	
ENABLE					
SENSTIVITY MASK SETUP	5 0	5 0	5 0	5 0	

MOTION DETECTION

Setup motion detection. The motion detection setup will relate to the **MOTION DETECTION** in *ALARM SETTING*.

ENABLE

Enable/disable the channel to detect motion.

SENSITIVITY

Set the sensitivity level. The sensitivity is from H (High), 9~ 2 and L (Low).

MASK SETUP

Select a specific area for motion recording. The DVR system will start recording when the selected area has been detected motion.





HDD OVERWRITE HDD SIZE HDD USED HDD FORMAT VIDEO BACKUP STORAGE SETUP 953 , 849MB 279MB 0%

Description

HDD OVERWRITE

Enable/disable replacing the earliest recorded file when the hard disk space runs out. By default, the HDD overwrite setting is enabled. If user has enable the **PASSWORD SETUP** in **SYSTEM SETUP**, and then, a password entered is required when change the **HDD OVERWIRTE** status. The default password is **111111**.

HDD SIZE

Display the total capacity of the hard disk.

HDD USED

Display the amount of space that has been used.

HDD FORMAT

For security purpose, you may have to enter the password to format hard disk (The default password is **111111**).

To format hard disk:

- Use the A and V buttons to go up and down and select HDD FORMAT. Then press J.
- 2. In the CHECK PASSWORD screen, press 🖌). Then use 🧹 🔺

and _____ buttons to select the security combination number. Press button again to make the selection.

3. To move the selection to the left and right, use) , and (• (buttons.

CHECK	PASSWORD
ENTER PASSWORD EXECUTE	*****

- 4. After entering the last number, the "**PASSWORD CORRECT**" appears, you are now authorized to format the hard disk.
- 5. It is done when the "FORMAT DISK SUCCESS" appears.



Formatting the hard disk will permanently delete all the recorded files. The recorded files will be no longer for retrieving.

HDD OVERWRITE HDD SIZE HDD USED HDD FORMAT VIDEO BACKUP

STORAGE SETUP ☑ 953 , 849MB 279MB 0%

Description

VIDEO BACKUP

To backup the recorded video by selected period.

•	•
	VIDEO BACKUP SETUP
START	2009 / 11 / 03 14 : 50 : 10
END	2009/11/03 14:52:10
BACKUP CH	☑1 ☑2 ☑3 ☑4
BACKUP SIZE	~4 MB
BACKUP	



Please plug the pen drive or external hard disk into DVR system before starting backup process.

- 1. Select the START TIME and END TIME of backup.
- 2. Select the channels which user wants to backup in **BACKUP CH**.
- 3. Select the **BACKUP SIZE** to calculate the size of selected backup file.
- 4. And then, select **BACKUP** and press **YES (ENTER)** to start backup video

BACKUP IN PROCESS	
	048% 1, 646MB

5. When backup is done, press any key to back to main menu.



SYSTEM

	MAIN
CAMERA/RECORD	
DISPLAY	
SCHEDULE	
EVENT SETUP	
STORAGE	
NETWORK	

MENU

Description

NETWORK SETUP

Setup the network parameters for the internet or intranet remote monitor or playback.

NET	WORK SETUP
IP MODE VIDEO PORT UPGRADE PORT STREAM SETUP	STATIC 0080 5005

IP MODE

The system provides 3 types of IP setup mode – STATIC, DHCP, and PPPOE.

- STATIC: Assigns a constant IP address for the DVR system.
 - IP ADDRESS: Assign a constant IP address which a real IP addresses give from ISP to DVR system.
 - SUBNET: It is a bitmask used to identify the sub network and how many bits provide room for host addresses. Enter the subnet mask of the IP address which user has assigned to DVR system.
 - GATEWAY: A network device act as a passageway to internet. Enter the network gateway IP address
 - DNS: Domain Name Server translates domain names (such as www.abb.com.tw) to IP addresses. Enter the IP address of DNS if it is available.
 - MAC ADDRESS: The hardware address of the DVR system. Only for information. Doesn't need to enter the MAC address.
 - When all parameters are set, select the CHANGE to confirm the configuration.



DHCP: Assign the IP address by local DHCP server to DVR system.

- The DHCP (Dynamic Host Configuration Protocol) is a set of rules used by a communications device (such as a computer, router or networking adaptor) to allow the device to request and get an Internet address from a server which has a list of addresses available for assignment
- **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.

VIDEO PORT

A port for the remote connection. Any port can be assigned as a video port, except the ports already used by the network services. The default video port is 80.



Description

UPGRADE PORT:

A port for the remote update DVR system firmware. Any port can be assigned as an upgrade port, except the ports are already used by the network services. The default upgrade port is 5005.



Please DO NOT cut off the power of the DVR system while the firmware is upgrading. Power failure will cause the permanent damage of the DVR system.

NET	WORK SETUP	
IP MODE	STATIC	
VIDEO PORT	0080	Conf
UPGRADE PORT STREAM SETUP	5005	
OTREAM OFFO	•	ENA
		Enab
		FPS
		Set t
		QUA

EAM SETUP

figure the network stream of channel.

BLE

ble/disable the stream setup of channel.

the frame rate of stream.

LITY

Select the quality for stream recording.



MAIN MENU CAMERA/RECORD DISPLAY SCHEDULE EVENT SETUP STORAGE NETWORK SYSTEM

SYSTEM SETUP

To configure the parameters that relate with DVR system.

SYST	TEM SETUP	
SYSTEM INFO		
CONFIGURATION		
LOG		
DATE / TIME		
PASSWORD CHANGE		
AUDIO SETUP		
MULTIPLE DVR		
DVR ID	1	
INSTANT PLAYBACK	060 SEC	
LANGUAGE	ENGLISH	

SYSTEM INFO

Display system software version, video system type, and MAC address of DVR device.

SYST	EM INFO
FW VERSION	B3.01.01.00.02
VIDEO FORMAT	NTSC
MAC ADDRESS(LAN)	00 : 18 : 1A : 09 : 00 : 02

SYST	TEM SETUP
SYSTEM INFO	
CONFIGURATION	
LOG	
DATE / TIME	
PASSWORD CHANGE	
AUDIO SETUP	
MULTIPLE DVR	
DVR ID	1
INSTANT PLAYBACK	060 SEC
LANGUAGE	ENGLISH

Description

CONFIGURATION

Backup and restore the DVR system setting.

CONFIGURATION SETUP
LOAD SYSTEM DEFAULT
EXPORT CONFIGURATION
IMPORT CONFIGURATION

LOAD SYSTEM DEFAULT

Set whole system back to factory default. Please restart DVR after default value has loaded.

EXPORT CONFIGURATION:

Backup the current DVR system setting to USB storage device such as pen drive or external hard disk. Plug in the USB storage device before starting to save the configuration.

IMPORT CONFIGURATION:

To restore the previous saved DVR system setting from USB storage device such pen drive or external hard disk. Please restart DVR after default value has loaded.

LOG SETUP

To search event log. Select the **SEARCH TIME** and select **SEARCH EXECUTION** to start searching. The search result will be list out. User can select the log to view.

	LOG	LIST		
SEARCH TIM	E :	2009 / 01	/07 10:00:0	0
SEARCH EX	ECUTION			
2009 / 01 / 07	10 : 41 : 02	VIDEO	LOSS - 4	
2009 / 01 / 07	10:41:02	VIDEO	LOSS - 3	
2009 / 01 / 07	10:41:02	VIDEO	LOSS - 2	
2009 / 01 / 07	10:41:02	VIDEO	LOSS - 1	
2009 / 01 / 07	10:40:32	VIDEO	LOSS - 4	
2009 / 01 / 07	10:40:32	VIDEO	LOSS - 3	
2009 / 01 / 07	10:40:32	VIDEO	LOSS - 2	
2009 / 01 / 07	10:40:32	VIDEO	LOSS - 1	
2009 / 01 / 07	10:40:02	VIDEO	LOSS - 4	
2009 / 01 / 07	10:40:02	VIDEO	LOSS - 3	
	\bullet			1-5

	SYSTEM	SETUP
SYSTEM INFO		
CONFIGURATION		
LOG		
DATE / TIME		

060 SEC

ENGLISH

PASSWORD CHANGE AUDIO SETUP MULTIPLE DVR DVR ID INSTANT PLAYBACK LANGUAGE

Description

DATE FORMAT

Select the display format of the date -- YYYY/MM/DD, MM/DD/YYYY, or DD/MM/YYYY

DATE	/TIME SETUP
DATE FORMAT	YYYY/MM/DD
DATE	2009 / 11 / 03
TIME	15 : 19 : 09
TIME SYNC	
FORCE SYNC	0
TIME ZONE	GMT +08 : 00
LAST SYNC TIME	2009/01/01 00:00:00
DAYLIGHT SAVING	
START	2009/01/01 00:00:00
END	2009/01/01 00:00:00
OFFSET	00:00

DATE

Set the current date

TIME

Set the current time Display the latest time synchronization date and time.

TIME SYNC

Enable/disable time synchronization automatically through network. The DVR system will auto synchronize time from NTP servers.

FORCE SYNC

To synchronization system time through the network time server manually.

TIME ZONE

Select the time synchronization time zone. The time zone will base on GMT (Greenwich Mean Time) time zone.

DAYLIGHT SAVING

To enable/disable daylight saving function.

START

Setup daylight startup date and time.

END

Setup daylight stop date and time.

OFFSET

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.

	SYSTEM	SETUP
SYSTEM INFO		
CONFIGURATION		
LOG		
DATE / TIME		
PASSWORD CHA	NGE	
AUDIO SETUP		
MULTIPLE DVR		
DVR ID		1
INSTANT PLAYBA	ACK	060 SEC
LANGUAGE		ENGLISH

Description

PASSWORD CHANGE

PASSWOR	D CHANGE SETUP
PASSWORD SETUP	
ADMINISTRATOR	
OPERATOR	
USER	

PASSWORD SETUP

Enable/disable full system password protection. This would prevent unauthorized user to stop video recording, change system settings and formatting the hard disk.

If user wants to disabled the password function, user needs to enter password. The factory default password is **111111**.

CHECK	PASSWORD	
CHECK ENTER PASSWORD EXECUTE	PASSWORD *****	

ADMINISTRATOR

Administrator has the authority of formatting hard disk, changing system settings, remote monitor the DVR system and changes the system settings. The factory default password is **111111**.

	Default Password	Authority
ADMIN	111111	All
OPERATOR	111111	Preview/Playback/Remote access(preview/playback)
USER	111111	Preview/Remote access(preview only)

OPERATOR

The login account for remote connection through the internet. User account only can view and playback recorded video by Web viewer (ex: Internet Explorer), but no authority to change the DVR system's setting. The factory default password is **111111**.

USER

The login account for general user. No administrator authority and only can preview live video. The factory default password is **111111**.



-	
SYST	FEM SETUP
SYSTEM INFO	
CONFIGURATION	
LOG	
DATE / TIME	
PASSWORD CHANGE	_
AUDIO SETUP	
MULTIPLE DVR	
DVR ID	1
INSTANT PLAYBACK	060 SEC
LANGUAGE	ENGLISH

Description

AUDIO SETUP



MUTE

Enable/disable to hear audio sound while preview or playback. To hear sound, make sure the unit is connected to a speaker.



If you want to hear the voice when you playback the recorded file on this DVR, please make sure that you have selected Audio Mute Off.

AUDIO OUT@ QUAD

Select the channel to output the audio signal While QUAD mode. Please make sure the audio output device (such as a speaker) is connected to DVR unit.



Audio output device has its own power supply is necessary.

VOLUME ADJUSTMENT

To adjust audio output volume.

RESET TO DEFAULT

Set all configurations back to factory default.

MUTLIPLE DVR

Enable/disable multiple DVR system remote control. When user has more than one DVR system, user can use **MULTIPLE DVR** function to control all DVR system by single remote control.



- Using remote control to enter the DVR ID and switch to the selected DVR. To enter the DVR ID, please press FN +

number button($(1 \oplus) \sim (9 \oplus)$) can switch to the selected DVR.

When idle time is over 1 minutes, user need to re-enter the DVR ID in order to controll the selected DVR.

DVR ID

Assign an ID of the DVR system for multiple DVR controlling. When multiple controlling, use remote control to press the DVR ID (FN) + number

button(1 \odot ~ 9 \odot) can switch to operate the DVR system.

INSTANT PLAYBACK

To set the time in seconds for automatically playback the video that has just recorded.

LANGUAGE

Select the language of the system



4.1 Recommended System Requirements

- Pentium®4 2.4GHZ or above
- Windows®2000/ Windows XP/Windows Vista/Windows 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:

1. 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

CHAPTER 4



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 enclosure that contains recorded file hard disk to the PC.

4.3 Running the USB Playback Console

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



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 Controller	Begin: Move at the beginning of the recorded video file.
	Previous: Go back to the previous frame by frame.
	Slower
	 Play the backup recorded video file (*.dvr) at the speed of 1/2x, 1/4x, 1/8x, 1/16x, or 1/32x. Play the record video file (*.avf) at speed of 1/2x, 1/4x, 1/8x, or 1/16x. Play the record video file from hard disk directly at 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 (*.dvr and *.avf) at the speed of 2x, 4x, 8x, 16x, or 32x. Play the recorded video file from hard disk directly at speed of 2x, 4x, 8x, or 16x.
	Next: Go to the next frame by frame.
	End: Go to the end of the recorded video file.

Nam	10	Function
(4) (Open File	To select the video file source for playing.
		Select File Type
		File Type for Playback
		DVR Recorded File (HD)
		◎ Backup File (.dvr)
		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 aslo <u>Chapter 4.3.2</u>)
		- Backup File(.dvr): The file is backup and save in *.dvr file format. (see also Chapter
		 <u>4.3.3</u>) Backup File (.avf): The file is backup and save to external USB storage device in *.avf format. To playback avf format file, see <u>Chapter 2.1.2.1</u>.
(5)	Status bar	Display the recorded date, time and play speed.
(6)	Language	To switch language of function tips.
(7)	Advanced	Advanced function is including :
		 HDD Backup: to call out HDD Backup application. (see also <u>Chapter 5</u>) Enhance to call out iFinhance application. (see also <u>Chapter 5</u>)
		 iEnhance: to call out iEnhance application. (see also <u>Chapter 6</u>) AVF to AVI: save *.avf file format into *.avi file format.
(8)	Export	Export includes Snapshot, Print, Output Video Clip, and Export KML function.
(0)	Export	■ Snapshot: Capture and save the screen shot either in *.jpg or *.bmp format.
		Print: Print the screen shot.
		Output to AVI: Save the segmented file in *.avi format
(9)	Segment	Keep a portion of the recorded video (see also <u>Chapter 4.3.1</u>)
(10)	Full screen	Use the entire area of the screen to only display the video. To return, press the right button of the mouse or ESC on the keyboard.
		When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.
(11)	Event List	Select the event you want to playback. The event list only available when user select to playback in DVR Recorded File(HD) .
		No. Record Begin Time End Time 1 A 2009/05/18 22:00:00 2009/05/18 22:50:00 2 A 2009/05/19 00:00:00 2009/05/19 00:59:59 3 A 2009/05/19 01:00:00 2009/05/19 01:59:59 5 A 2009/05/19 01:00:00 2009/05/19 01:59:59 6 A 2009/05/19 01:00:00 2009/05/19 01:59:59 7 A 2009/05/19 05:00:00 2009/05/19 01:59:59 8 A 2009/05/19 05:00:00 2009/05/19 07:59:59 10 A 2009/05/19 07:10:00 2009/05/19 07:59:59 11 A 2009/05/19 07:10:02 2009/05/19 07:59:59 12 A 2009/05/19 07:10:02 2009/05/19 07:59:59 13 A 2009/05/19 07:10:02 2009/05/19 07:59:59 14 A 2009/05/19 08:00:00 2009/05/19 08:59:59 15 A 2009/05/19 08:00:00 2009/05/19 08:59:59 15 A 2009/05/19 08:00:00 2009/05/19 08:59:59 15 A 2009/05/19 10:00:00 2009/05/19 08:59:59 16 A 2009/05/19 10:00:
(12)	Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(13)	Sound /Sound bar	 Turn on and off the sound Increase and decrease the volume
(14)	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.

Name	Function
(15) Watermark	When playback file from hard disk and *.avf file, click watermark to call out ImageVerification application (see also <u>Chapter 7</u>).
(16) Split Screen Mode	Select from different screen view to playback the recorded video file of the entire camera or one camera on screen.

4.3.1 To Cut and Save the Portion of the Recorded Video

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.



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

4.3.2 Playback DVR Recorded File from Hard Disk

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



5. And then, the **Event List** window appears. Select the event that user wants to play and click **OK**.

0.	Record	Begin Time	End Time
1	A	2009/05/18 22:00:00	2009/05/18 22:00:00
2	A	2009/05/18 22:00:00	2009/05/18 23:59:59
3	A	2009/05/19 00:00:00	2009/05/19 00:59:59
4	A	2009/05/19 01:00:00	2009/05/19 01:59:59
5	A	2009/05/19 02:00:00	2009/05/19 02:59:59
6	Α	2009/05/19 03:00:00	2009/05/19 03:59:59
7	A	2009/05/19 04:00:00	2009/05/19 04:59:59
8	A	2009/05/19 05:00:00	2009/05/19 05:59:59
9	A	2009/05/19 06:00:00	2009/05/19 06:59:59
10	A	2009/05/19 07:00:00	2009/05/19 07:15:02
11	A	2009/05/19 07:15:02	2009/05/19 07:59:59
12	A	2009/05/19 08:00:00	2009/05/19 08:00:00
13	A	2009/05/19 08:00:00	2009/05/19 06:59:59
14	A	2009/05/19 07:00:00	2009/05/19 07:59:59
15	A	2009/05/19 08:00:00	2009/05/19 08:59:59
16	A	2009/05/19 09:00:00	2009/05/19 09:59:59
17	A	2009/05/19 10:00:00	2009/05/19 10:59:59
18	A	2009/05/19 11:00:00	2009/05/19 11:59:59
19	A	2009/05/19 12:00:00	2009/05/19 12:59:59

4.3.3 Playback Backup File(*.dvr)

1. Click Open File button.

h

- 2. Select Backup File(*.dvr) and click OK.
- 3. Locate the backup file folder and click **OK**.

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

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



BACKUP RECORDED VIDEO FILE



HDD Backup application provides user an interface to view recorded video from hard disk and backup it.

5.1 Familiarizing with HDD Backup Application



(2) Ho	ate our and Channel vent list	Select the date for events User can select the hour and channel for events. : All events in this hour and channel have been selected. : In this hour and channel has events : Partial of events in this hour and channel has been selected. All recorded video events list - No.: the list order number
		 All events in this hour and channel have been selected. : In this hour and channel has events : Partial of events in this hour and channel has been selected. All recorded video events list
(3) Ev	vent list	 : In this hour and channel has events : Partial of events in this hour and channel has been selected. All recorded video events list
(3) Ev	vent list	: Partial of events in this hour and channel has been selected. All recorded video events list
(3) Ev	vent list	All recorded video events list
(3) Ev	vent list	
		No : the list order number
		- Record: the record type(A: Always Record/B: Button Record/L:Alarm Record)
		- Begin Time: the beginning of record time
		- End Time: the end of record time
(4) Se	et Marked File	Use Ctrl and mouse to select the multiple events from event list, and then click Set Marked File to mark multiple events. When click Set Marked File button, the marked event will turn to un-mark and un-mark event will turn to marked.
		- Pre: go back last page
(5) Pa	age Switch	- Next: go to next page
		- Page column: enter the page number and click Go button to go to the page
(6) Se	elect All	Select all listed recorded video events. Click the check box again to cancel for selecting all events.
(7) Vi	deo display	Display first frame of each recorded video channel from 4 selected.
(8) Pr	ogress bar	Show the progress of the event being played. User may move the bar to seek at any location of the track

Name	Function		
(9) Source Disk	To select the hard disk drive Select Disk		
	HDD Size Name 0 298 GBytes USBSTOR\Disk&Ven_WDC_W 1 37 GBytes USBSTOR\Disk&Ven_ST34001 - - - - - - - - - - - - - - -		
(10) Target Path	To locate on where user wants to save the file		
(11) Event (%)	Display the backup progress rate of event in percentage		
(12) Total (%)	Display the total backup progress rate in percentage		
(13) Stop	Stop backup progress		
(14) Start	Start backup progress		

5.2 To Backup Recorded Video File

- 1. Please have the hard disk which was recording video on the DVR system install on your PC or using external USB enclosure to connect to your PC.
- 2. To run the HDD Backup application, click the **HDD Backup** button on USB Playback Application main interface.
- 3. Click Browse in Source Disk to locate the recorded video file.
- 4. And then, the **Select Disk** windows will appear as below:



- 5. Select the hard disk drive from **Select Disk** windows. All available hard disk will list on the **Select Disk** windows with size and name
- 6. Select the hard disk drive and click OK
- 7. And then, all the recorded video files will list out.
- 8. Select the event which user wants to backup. Or mark the **Select All** to select all listed recorded video event
- 9. Locate on where user wants to save the backup file
- 10. Click Start to process backup
- 11. To stop the backup progress, click Stop
- 12. To play the backup file, see <u>4.3.3</u>.

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.

CHAPTER

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



Name	Function
(1) Open File	Access *.dvr or *.avf video file.
(2) Save Image	Capture and save the screen shot in *.bmp format.
(3) Playback Control Buttons	Begin: Move at the beginning of the video file.
	Previous: Go back to previous frame.
	Pause: Briefly stop playing the video file.
	Play: Play the video file.
	Faster: Go to the next frame.
	Next: Play the video file at the faster speed.
	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.

Function		
Delete the last action.		
Adjust the softness and repair the damaged colours.		
Improve the overall image by enhancing edges. This gives the image more depth.		
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.		
Adjust the Brightness, Contrast, Saturation, Hue and Gamma.		
Display the original state of the image.		
Display the sample settings. Click the sample to apply the setting on the current video.		
Display the date, and time of the video.		
Show the progress of the file being played. You may move the bar to seek at any location of the track.		
To reduce the jolt in the recorded video.(also see <u>Chapter 6.1</u>)		
Include the new setting to the temporary setting block.		
Change the name of the selected setting in the temporary setting block.		
Permanently remove the selected setting in the temporary setting block.		
Call the saved settings.		
Store the settings in the temporary setting block.		

6.1 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.



IMAGEVERIFICATION



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

7.1 To Run the ImageVerification

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



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. Click to install ActiveX if your PC required to be installed.



And then, 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 default account ID (default is **ADMIN**) and password (default is **111111**) and select the type of network.

Changing account password is strongly recommended.

Fø Ed Were Favorites Total Favorites </th <th>🕘 WebViewer - Microsoft Internet Explorer</th> <th></th>	🕘 WebViewer - Microsoft Internet Explorer	
Address in http://127.0.0.1/	File Edit View Favorites Tools Help	AL
Authorization User D Password Remember Login Information Network Type CK	🚱 Back 🝷 🕥 🗧 🔝 🙆 🏠 🔎 Search 👷 Favorites 🤣 🔗 + 🌺 🧱	
Authorization User ID Password Remember Login Information Network Type Cancel	Address 🗿 http://127.0.0.1/	So Links 🎽
	User ID Password Remember Login Information Network Type OK Cancel	
Done One One		
	Done	🗸 🖉 Internet

8.1 Familiarizing the WebViewer Buttons

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



Name

(13) Select cameras to view

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

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

Click Delete Server to delete the selected item.

Click **Import** to load the previous saved list.

Click Export to save the list.

Function

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

	Add Server	Delete Server	Import	Export
No.	IP Address	Camera Name	Display	Video Quality
01	10.1.2.23:80	CAMERA1	✓	-
02	10.1.2.23:80	CAMERA2	\checkmark	-
03	10.1.2.23:80	CAMERA3	\checkmark	-
04	10.1.2.23:80	CAMERA4	 ✓ 	-

8.1.1 To Setup Remote System Setting

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



After changed the DVR system setting, refresh your web browser in order to apply the new setting to the DVR system.

8.1.1.1 System Setup



(1) Video Out Setting

- Video Output: Select the Video output source (VGA or TV) to configure the value of Resolution, Sharpness and Color Enhance.
- **Resolution:** Select the video display resolution.
 - > SVGA: 800 x 600
 - ➤ XGA: 1024 x 768
 - ➤ SXGA: 1280 x 1024
- Sharpness: Adjust the sharpness of display video.
- Color Enhance: Adjust the color enhancement of display video.

(2) DLS Setting

Mark **Enable DLS** check box to enable daylight saving. And then, select the **Start** and **End Time** by click **setting**.

- **Time Offset:** 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.
- (3) MISC
 - **Time Sync.:** Enable/disable Network Time Protocol to adjust the time of system from the network time server.
 - Time Zone: Select the time zone of DVR located.
 - **Sync Type:** Select the ways of the network time synchronize.
 - NTP Server: Enter the URL of the network time server.

- Time Format: Select the format of time and date for the DVR system.
- **Disk Overwrite:** Enable/disable replacing the earliest record when the hard disk space runs out.
- By default, the HDD overwrite setting is enabled

(4) Display

- VGA-TV Selection: Select the VGA and TV output order.
 - ✓ **MAIN MAIN:** Both VGA and TV output surveillance video on screen.
 - ✓ MAIN SPOT: VGA output surveillance video and TV output the alarm event video.
 - ✓ **SPOT MAIN:** VGA output alarm event video and TV output the surveillance video.
- **SPOT Mode:** To select the display mode (**QUAD** or **Channel** (1, 2, 3, or 4)) on spot monitor when there is no alarm event.
- **Auto scan:** Enable/disable auto cycle switch to display the next channel when in full screen mode.
- **Event Duration:** Select the type of event duration.
- Set Duration: Set a time gap (10 ~ 999 seconds) before switch back to preview screen mode after display the alarm event.

	Camera Setup					×	
(1)—	General DVR Name: AVERMEDIA I Time Stamp Watermark	V Auto Record	Pre Record	j	5 sec		
(2)	Camera 01 👻	Camera Name CAMERA1		Audio Setting		1	-(4)
	Color Adjustment	,		Audio Out @ Quad	CH 1 💌		(')
(3)—	Brightness		- 124	Audio Mute			
	Contrast		- 121	🖂 СН 1	🗌 СН 2		
	Hue			🗖 СН З	🗌 CH 4		
	1100		- 1	Volume			
	Satruration		- 54	L1	8		
	Rese	t to Default Value		Reset to	Default		
				OK	Cancel		

8.1.1.2 Camera Setup

(1) General

- Time Stamp

Enable/disable the time and date display on the each channel.

- Auto Record

Enable/disable auto continue recording when interrupted (i.e., power breakdown, video playback or configuration setup). It starts to record after 10 second of idleness. This is applicable in Always Record mode.

- Pre Record

Set the pre-recording time in seconds when alarm has occurred.

(2) Camera

Select the camera and enter a name for the camera.

(3) Color Adjustment

Select the camera and adjust the **Brightness**, **Contrast**, **Hue** and **Saturation** of the selected camera. Click **Reset to Default Value** to set all video setting back to the default.

(4) Audio Setting

Click **Reset to Default Value** to set all video setting back to the default.

- Audio Out @ Quad

Select the channel to output the audio signal While QUAD mode. Please make sure the audio output device (such as a speaker) is connected to DVR unit.

- Audio Mute

Enable/disable to hear audio sound while playback. To hear sound, make sure the unit is connected to a speaker.



If you want to hear the voice when you playback the recorded file on this DVR, please make sure that you have disabled **Audio Mute**.

- Volume

To adjust audio output volume.



(1) Record Mode

Select D1/CIF/D1 Enhance recording mode.

Under **D1** mode, the total recording frame rate is **60/50fps** (NTSC/PAL). The video recording is in full screen resolution and takes turns from one channel to the next one when **Auto Scan** enables. Each channel is recorded only at a maximum frame rate of 30/25 fps (NTSC/PAL). User can switch to view the video in single full screen or QUAD screen.

In **D1 ENHANCE** mode, the total recording frame rate is **30/25fps** (NTSC/PAL). Each channel can be recorded at a maximum frame rate of 30/25 fps (NTSC/PAL).

Whereas in **CIF** mode, the total recording frame rate is **120/100fps** (NTSC/PAL). The video recording is at a lower resolution, but all channels can be recorded at a maximum frame rate of 30/25 fps (NTSC/PAL). User can switch to view the video in single full screen or QUAD screen.

(2) Channel Setting

Setup parameters of each channel.

- Enable

Enable/disable the channel to display the video on the surveillance screen. If the channel is disabling, there won't be any video display and recording.

- Record

Enable/disable the channel number to record video.



The channels are enabled can be set for video recording.

- Audio Record

Enable/disable audio recording. To record sound, make sure the audio input device (ex: microphone) is connected to the DVR unit.

- Preview

Enable/disable the video preview on the surveillance screen.

- Max. FPS

Display the maximum frame rate of recording that user has set. Maximum fps total value depends on the **RESOLUTION** that user has chosen.

- FPS

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

- Quality

Select the video quality setting from **BEST**, **HIGH**, **GOOD**, **MEDIUM**, **NORMAL** or **LOW**. Choosing higher quality allows user to record less hours but the quality of the recorded video is better.

- FPS(alarm)

Set the number of frames per second to be recorded when alarm has occurred. The higher the frame rate, it uses more hard disk space.

- QUALITY(alarm)

Select the video quality (**BEST**, **HIGH**, **GOOD**, **MEDIUM**, **NORMAL** or **LOW**) of alarm recording. Choosing higher quality allows user to record less hours but the quality of the recorded video is better.

(3) Record Schedule

By default, in 24 hours, the recording schedule is set to always record every hour. Refer to the table below to customize the recoding condition.

Condition	Description
NO RECORD	Not recording at all
ALWAYS RECORD	Non-stop recording
ALARM RECORD	Start recording when the alarm is activated. The alarm activates status according to the setting in ALARM SETTING .
SMART RECORD	Automatically switch to recorded at the frame rate of FPS (alarm) that is setup in CAMERA CHANNEL SETTING once an alarm is detected and if there is no motion, it records at the frame rate of FPS that is setup in CAMERA CHANNEL SETTING .
VARIED RECORD	When each channel has different record schedule, the record schedule table will display in Green color that is indicated as VARIED RECORD .

Select the channel to setup record schedule. Click the type of schedule and select hour (00~23) and day (Mon ~ Sun), and then, click **OK** to complete the schedule setting.

8.1.1.4 Alarm Setup

	Alarm Setup		X	
	Alarm		Sensor Setup	—(5)
(1)—	Alarm Type	Record 💌	Sensor CH 1 Enable	(3)
(2)-	Alarm Continuously	Continue		
(3)-	Alarm Period	60 Sec	© Normal Open C Normal Close	
(4)—	Select ALL	C Deselect ALL		
	Sensor		Motion Detection	—(6)
	Motion Detection		Motion CH 1 T Enable	(0)
	Remote Trigger	Trigger		
	HD Fail	Mail Setup	Sensitivity 8	
			OK Cancel	

(1) Alarm Type

Select the way of alarming – Record, EMAIL, or RELAY.

(2) Alarm Continuously

Enable/disable to execute the alarm action (**ALARM TYPE**) continuously when alarm has been trigger. The alarm action is according to the setting of **ALARM TYPE** that user has setup.



When **ALARM CONTINUOUSLY** has been started, it won't be stop until the recording has been stop manually.

If **ALARM CONTINUOUSLY** has been enabled, the **ALARM PERIOD** won't be able to configure.

(3) Alarm Period

Set the amount of time (in seconds; 0~ 999) for stop alarm action after alarm has been reset.

If **ALARM CONTINUOUSLY** has been enabled, the **ALARM PERIOD** won't be able to configure.

(4) Select/Deselect ALL

To enable/disable all below selection.



Video Loss and HD Fail only available when the Alarm Type is Email or Relay.

Sensor

Enable/disable to send out the alarm if sensor has been triggered according to the setting of **SENSOR SETTING**.

- **Motion Detection** Enable/disable to send out the alarm if motion has been detected.



To activate the motion recording, please enable the **Motion Detection** in this section or <u>Alarm Setting</u> of <u>Chapter 3.1</u> and configure the record mode as **ALARM RECORD** in <u>Chapter 7.1.1.3</u> or <u>RECORD SCHEDULE</u> of <u>Chapter 3.1</u>.

- Video Loss Issue an alarm when t selected channel's video is lost.

- Remote Trigger
- Allow user to trigger alarm from remote site. Click **Trigger** button to trigger.
- **HD Fail** Issue an alarm when hard disk of DVR system is failed.

- Mall Setup
 - ✓ **SMTP:** Enter the SMTP server
 - ✓ User ID & Password: Enter User ID and Password for e-mail server user identification
 - ✓ From: Enter the sender e-mail address
 - ✓ To: The recipient e-mail address and separate it with a semicolon
 - ✓ **Subject:** Enter the message title
 - ✓ **Message:** Type the message

*Mail Setup		×
-*Mail Setup		
SMTP		
User ID		
Password		
From		
То		
Subject		
Message		
	OK Cancel	

(5) Sensor

Enable/disable initial state of the attached sensor of the channel.

(6) Motion Detection

Enable/disable the channel to detect motion.

8.1.1.5 Network Setup

	Network Setup	
(1)—	—IP Mode	PPPOE
(2)—	- Options	Static IP
	Remote audio record	IP · · ·
	Server Port 80	Mask
	UPNP Enable	Gateway
	UPNP Port	DNS · · ·
(3)—	DDN5	
(0)	Domain Name	User ID
	Password	Password
(4)—	Stream Setup	OK Cancel

(1) IP Mode

The system provides 3 types of IP setup mode – STATIC, DHCP, and PPPOE.

- **STATIC:** Assigns a constant IP address for the DVR system.
- **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.

(2) Remote audio record

Enable/disable the audio recording at remote site.

(3) DDNS

Dynamic Domain Name Service is a data query service mainly used on the Internet for translating domain names into Internet addresses.

- **Domain Name:** Enter the domain name that user has registered.
- **Password:** Enter the password that user has setup when registered the domain name.

(4) Stream Setup

Click it to setup each channel stream and quality for the remote site viewing.

Stream Setup				
- Streen Setting			Current 20 fps	: Total 60 fps
Stream Setting	Channel 1	Channel 2	Channel 3	Channel 4
Enable Network Stream	V	V		V
FPS Quality	Medium 💌	Medium 💌	Medium 💌	Medium 💌
			Ok	Cancel

- Enable

Enable/disable the channel. If channel is disabled, the video stream will not been seen in remote site and transmitting to remote site.

- Network Stream FPS

Set the stream FPS of channel. Scroll the bar to adjust the fps.

- Quality

Select the quality of the channel.

8.1.1.6 User Setup

To change Admin, operator, and user account's password. Enter the new password in **Password** and re-enter again in **Password Confirm**. Click **OK** to complete the change.

Password Setup		×
ADMINISTRATOR		
OPERATOR		
Password Confirm		
Password		
Password Confirm		
	ОК	Cancel

8.2 Familiarizing the WebViewer PTZ Buttons



Name	Function				
(1) Direction buttons	Adjust and position the focal point of the PTZ camera. Click the center to pan automatically.				
(2) Zoom +/-	Zoom in and out the image.				
(3) 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.				
(4) Focus +/-	Adjust the focus manually to produce clear image.				
(5) Auto Pan Groups	Operate the PTZ cameras automatically based on the selected camera group preset position number.				
(6) Camera preset position number	Move the PTZ camera to the preset point. The reset point (1~9) is based on the user has setup by remote control at local site.				

8.3 Familiarizing the Remote Console Buttons



Name	Function					
(1) Exit	Close/minimize remote console application					
(2) Split Screen Mode	Select from 2 different split screen type to playback the recorded video file of a cameras or one camera on the screen.					
(3) Record	Start/stop video recording.					
(4) Network	Enable/disable remote system access. This feature allows you to access DVR server from a remote location via internet connection.					
(5) Setup	Configure the Remote Console setting. (see also Chapter 7.3.1)					
(6) PTZ	To call out PTZ control panel for controlling PTZ camera.					
(7) Preview	Switch to Preview/Playback mode. This allows you to view live camera display.					
(8) Playback	Switch to Playback mode. This allows you to view the recorded video file. (see also Chapter 7.4)					
(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) Auto Scan	Enable/disable channel auto cycle switch.					
(13) Full screen	Use the entire area of the screen to only display the video.					
	To return, Right click the mouse or press ESC on the keyboard.					
(14) Audio	Enable/disable the sound display					
(15) DirectDraw	Enhance the video quality.					
Direct Draw fun vendor.	action supports for certain VGA card. For more information, please contact your VGA card					

8.3.1 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.

9.												
	System Setting											
(1)—	Storage Path											
	Folder Name Free Space Disk Space(Used)											
	C:\RemoteData 11.87G 40.00G(0.56G)											
Add Delet												
(2)—	Language											
	System Language English											
(3)—	Remote Server											
	Server Name IP Address Port											
	Default 10.1.2.59 80											
	Default 10.1.2.22 80											
	Add Delete											
(4)—	Channel Settings OK Cancel											

(1) Storage Path

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

Enable network storage

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

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

(2) Language

Ĩ

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 that user wants to remote connect it.

(4) Channel Settings

The numbers from 01 to 04 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.

Channel Settings											
	1	2 2	⊻ 3	₹4	5	6	7	8			
	9	10	11	12	13	14	15	16			
Visible Channels											
	V 1	№ 2	🗹 З	⊻4	5	6	7	8			
	9	10	11	12	13	14	15	16			
			OK			ancel					

8.4 Using the Remote Playback

To use this feature, first switch to playback mode by clicking the **Playback** icon, and then, 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 on the DVR server.

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



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



To Make a Selection:

- 1. Select the date in the calendar. Use ≤ and ▶ buttons to shift the calendar to the left or right.
- 2. In the table below, click on the blue block to select and open the recorded file. The blue block turns red when it is selected. The block that appears in white doesn't have data. You can only select one block when you choose Download and Playback.
- 3. Click **OK** to proceed and **Cancel** to void this operation.
- 4. 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 7.4.3</u>).


8.4.1 Familiarizing the Local Playback Buttons

Name	Function			
(1) Exit	Click to exit or minimize the application. The password is required for exit or minimize.			
	Authorization Please enter your user ID and password. User ID ADMIN Password			
(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) Split Screen Mode	Select from 2 different split screen type to playback the recorded video file of all the cameras, or one camera over the other or alongside on a single screen.			
 If there are only 4 cameras, you won't be able to switch to 8, 13, and 16 split screen mode. To zoom in an area on the screen, Right click and Drag a square on the area you want to enlarge. To back to normal view, right click the channel screen again. 				
(4) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.			
The Hour button there is a record	as represent the time in 24-hour clock. The blue bar on top of the hour button indicates that ed video file on that period of time. If there is no recorded data within the hour, there will be no of the hour button. While the red bar indicates that you are currently viewing the recorded			
(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. 			

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



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

(7) Preview	Switch to Preview mode.	
(8) Playback	Switch to Playback mode. This allows you to view the recorded video file.	
(9) Status bar	Display the record date, time, HDD capacity in preview mode and play speed in playback mode.	
(10) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.	
(11) Export	 Export includes Snapshot, Print, and Output function. Snapshot: Capture and save the screen shot either in *.jpg or *.bmp format. Print: Print the screen shot. Output: Save the segmented file in *.avi format (see also <u>Chapter 8.4.1.1</u>) 	
(12) Segment	Keep a portion of the recorded video you want (see also Chapter 8.4.1.1).	
(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. To filter the records, select and click the option button to only display Event, System, Operation, Network or POS.	
(15) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second. (See also Chapter 8.4.1.2)	
(16) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search function.	
(17) Intelligent Search	Search the changes in the motion detector frame (See also <u>Chapter 8.4.1.3</u>).	
(18) Audio	Enable/disable audio play	
(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.	

8.4.1.1 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** \rightarrow **Output** button to save the wanted clip.
- 4. In the Save As dialog box, locate on where you want to save the file.
- 5. Mark the **show camera information** and select the **Text Alignment** to display camera name when playback. The camera information will be the information of server name that user has defined in **Network Setting**.
- 6. Select the file type (*.dvr, *.mgp, or *.avi) to save. If the select the file type is *.avi, user can mark **included audio** to include audio in output video segment.
- 7. To adjust Video Quality if needed.
- 8. Click **Save** to save the video segment.

Save As					? 🗙
Savejn: 🚺	Desktop	*	3 🕫	P 🗉]-
My Docume My Comput My Network New Folder	er < Places				
File <u>n</u> ame:	2008_9_25_15_7_38				ave
Save as <u>t</u> ype:	MPEG Files (*.mpg)		~	C	ancel
Video Quality:			70		
show camer Text Alignme					
⊙ Left-Top		OLeft-Bottom			
O Right-To	p qu	Right-Bottom			

8.4.1.2 To Search Using the Visual Search

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



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



8.4.1.3 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 **(DE)**.
- 4. You may also set to search and list all the result. Just check the List box. In the Search Duration section, set the Begin Time and End Time. Set the Searching Interval time 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 search result will show as below figure:

с	H 01	Motion List 🛛 🔀
		Time
	1	2009 03/03 14:31:15
		Finish

8.4.2 Familiarizing the Download and Playback Buttons



Name	Function	
(1) Exit	Click 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	Begin: Move at the beginning of the recorded video file.	
Control Buttons	Previous: Go back to the previous frame.	
	Slower: Play the recorded video file at the speed of 1/2x, 1/4x, 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, 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	Switch the language of function/button tips	
(6) Export	Export includes Snapshot, Print, and Output function.	
	Snapshot: Capture and save the screen shot either in *.jpg or *.bmp format.	
	Print: Print the screen shot.	
	Output: Save the segmented file in *.mpg, *.avi, or *.dvr format (see also <u>Chapter 8.4.1.1</u>).	
(7) Segment	Keep a portion of the recorded video (see also Chapter 8.4.1.1).	
(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) Event Log	Show the record of activities that take place in the system. To filter the records, select and click the option button to only display Event, System, Operation, Network or POS.	
(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 #2, if it captures lots of movement.	
	picture and πz , in it captures into or movement.	

Name Function (12) Watermark When playback file from hard disk and *.avf file, click watermark to call out ImageVerification application(see also Chapter 7)



Watermark verification doesn't support on hardware compression products, EB series DVR, and video that is recorded from IP camera.

USING HANDYVIEWER AND JAVAVIEWER CHAPTER

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

9.1 Using PDAViewer to Access DVR Server

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

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

9.1.1 To install PDAViewer thru ActiveSync

 Connect your PDA to your PC. Place the CD into the CD-ROM drive then click Utilities > PDAViewer > Setup.exe. 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.



9.1.2 To install PDAViewer from the Internet

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





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

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

9.1.3 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 <u>Chapter</u> 8.1.4)

(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.

Name

Function

- (10) Direction buttons Adjust and position the focal point of the PTZ camera.
- 3. To change the video quality, enable/disable audio, and select to display different camera, tap on the video screen longer the popup menu will appear.



9.1.4 To Playback in PDAViewer

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

🌮 PDAViewer 🛛 🥀 📢 07:40 🐽
CameraID Camera 1 👻
[Playback Date and Time]
2007 ▼ 7/3 ▼ m/21 ▼ d
19 \bullet h/ 0 \bullet m/ 0 \bullet s
PlayBack Cancel
▲ בֿ

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



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

🏂 PDAVie	ewer	_ # * +€	07:47 🐽		
Sensor Sensor 1 Sensor 2 Sensor 3 Sensor 4	Status Low Low Low	Relay Relay I ON OF	Status Low		
Ezit					

11. 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)

9.2 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.

9.2.1 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.

9.2.2 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.



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



WARRANTY NOTICE

LIMITED WARRANTY

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

WARRANTY LENGTH

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

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

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

WHO IS PROTECTED

This warranty is enforceable only by the first consumer purchaser

WHAT IS AND IS NOT COVERED

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

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

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

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

Any shipment damages (Claims must be made with carrier)

Any other cause which does not relate to a product defect

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

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- 1. Removal or installation charges
- 2. Shipping charges
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