# AVerDiGi EB1704 HB DVD EB1504 NET DVD EB1504 NET

**User's 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.

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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 when the equipment is operated in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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Changes and modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

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This product is conformity with the protection requirements of EU Council Directives 89/336/EEC amended by 92/31/EEC on the laws of the Member States relating to electromagnetic compatibility.

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

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### **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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## **Table of Contents**

Chapt	er 1 Introduction	1				
1.1	Package Content	1				
1.2	1.2 Features and Specifications					
1.3	Front Panel	2				
1.4	Back Panel	3				
1.5	Setting Up the DVR Unit	4				
1.5.	1 Installing Hard Disk for EB1704HB DVD/EB1504NET DVD	4				
1.5.	2 Installing Hard Disk for EB1504NET	6				
1.5.	3 Connecting Devices	7				
1.5.	4 Connecting the Audio/Sensor/Relay/PTZ Camera device	8				
1.	5.4.1 Sensor and Relay pinhole allocation:	8				
Chapt	er 2 Operating the DVR	9				
2.1	Familiarizing the Remote Control Buttons	9				
2.1.	1 Using AB Repeat Function	11				
2.1.	2 Using USB Backup Button	11				
2.1.	3 Controlling PTZ Camera	12				
2.	1.3.1 To Enter the PTZ Mode	12				
2.	1.3.2 To Set Preset Position	12				
2.	1.3.3 To Control PTZ Camera					
2.2	Using the DVR for the First Time	13				
2.2.						
2.3	Surveillance Screen	13				
2.4	Playback the Video					
Chapt	er 3 OSD Navigation Tree					
3.1	Menu Function					
-	er 4 Using the USB Playback Console					
4.1	Recommended system requirements					
4.2	Installing the USB Playback Console					
4.3	Running the USB Playback Console					
4.3.						
4.3.	,					
4.3.						
	er 5 Backup Recorded Video File					
5.1	Recommended system requirements					
5.2	Familiarizing with HDD Backup Application					
5.3	To Backup Recorded Video File					
Chapt	er 6 ImageVerification					

6.1 To Run the ImageVerification	38
Chapter 7 iEnhance	.39
7.1 To Use iStable	40
Chapter 8 Using the Remote Programs	.41
8.1 Familiarizing the Web Viewer Buttons	43
8.1.1 To Setup Remote System Setting	45
8.1.1.1 System Setup	45
8.1.1.2 Camera Setup	46
8.1.1.3 Record Setup	48
8.1.1.4 Alarm/Sensor Setup	49
8.1.1.5 Network Setup	51
8.1.1.6 Password Change	52
8.2 Familiarizing the Remote Console Buttons	53
8.2.1 To Setup Remote Console Setting	53
8.3 Familiarizing the WebViewer PTZ Buttons	55
8.4 Using the Remote Playback	55
8.4.1 Familiarizing the Local Playback Buttons	57
8.4.1.1 To Cut and Save the Wanted Portion of the Recorded Video	58
8.4.2 Familiarizing the Download and Playback Buttons	59
Chapter 9 Using Handy Viewer to Access DVR server	.60
9.1 Using PDA Viewer to Access NV DVR Server	60
9.1.1 To install PDA Viewer thru ActiveSync	60
9.1.2 To install PDA Viewer from the Internet	61
9.1.3 To Use the PDA Viewer	62
9.1.4 To Playback in PDA Viewer	63
9.2 Using Java-Viewer to Access DVR Server	64
9.2.1 To Use the JAVA-Viewer	65
Chapter 10 Using Central Managment System	.66
10.1 Software Installation	66
10.1.1 Minimum System Requirements	66
10.2 Installing the CM3000 in Windows XP/2000	67
10.3 Using the CM3000	67
10.3.1 Running the CM3000 Software	67
10.3.2 Using the CMS Application	68
10.4 Customizing the CMS System	71
10.4.1 System Setting	71
10.4.1.1 To change the Alarm Record Storage Path	71
10.4.1.2 To Set the System to a Different Language	72
10.4.1.3 To Change the Status Date Format	72
10.4.2 DVR Setup	72

10.4.2.1	To Add and Remove DVR Server	73			
10.4.3 Cam	10.4.3 Camera Setup				
10.4.4 E-M	AP Setup	74			
10.4.4.1	To Set Up the E-Map	74			
10.4.4.2	To Use the E-Map	77			
10.4.5 Aları	m Setting	78			
10.4.5.1	To setup an alarm condition	78			
10.4.6 User	<sup>r</sup> Setting	80			
10.4.6.1	To Set the User Setting	80			
10.5 Using the	he Playback Function	80			
10.5.1 To P	layback the video	81			
10.5.2 Usin	g the Local Playback Application	82			
10.5.3 Usin	g the Remote Playback Application	83			
10.5.3.1	To Cut and Save the Wanted Portion of the Recorded Video.	84			
10.5.3.2	To Search Using the Visual Search	84			
10.5.3.3	To Search Using the Event Search	85			
10.5.3.4	To Search Using the Intelligent Search	85			
10.5.4 Usin	g the Event Viewer	86			
Appendix A	Registering Domain Names	87			
Appendix B	Dual Monitors setting	88			
Graphic care	Graphic card with ATi chipset8				
Graphic care	d with NVIDIA chipset	90			

## Chapter 1 Introduction

## 1.1 Package Content



- (1) AVerDiGi EB1704 HB DVD/EB1504 NET DVD/EB1504 NET unit
- (2) Remote Control (batteries included)
- (3) Quick Installation Guide
- (4) Power Cord

\* The power cord varies depending on the standard power outlet of the country where it is sold.

- (5) Power Adapter
- (6) Software CD (User Manual included)
- $\Box$  (7) DVR accessories(including 8 screws and 1  $\Omega$  hook)

## **1.2 Features and Specifications**

- Non-PC hybrid network video recorder
- 4 composite video inputs and 1 composite output
- VGA output for LCD or CRT monitor display
- On Screen Display(OSD) control menu
- MPEG4 video compression
- Auto-detect NTSC or PAL video system
- Analog / IP camera/ PTZ camera support (extendable by customer's request)
- Support 4 channels Analog/IP cameras
- Support 4 channel Audio record
- Support network time synchronize function (Auto correction time delay & Day light saving)
- Support Web viewer on Internet Explorer
- Support CMS (Central Management System)
- Support remote console
- Multiple clients and dynamic IP supported

- Support audio recording via internet
- Support USB backup to pen drive
- Support DVD-RW backup(up to 4.2G)
- Support network, playback, and recording simultaneously
- Supports 1 hard disk drive (not included)
- Full-screen resolution: Display: 720 x 480 (NTSC) / 720 x 576 (PAL) Recording: 720 x 480 (NTSC) / 720 x 576 (PAL)
- Recording frame rate:
   D1 mode: 60fps (NTSC) / 50fps (PAL)
   CIF mode: 120 fps (NTSC) / 100fps (PAL)
- Scheduled recording (00:00~23:00 set by hour )
- Search for recorded video files by date/time/event
- Support remote preview on 3G mobile phone (with Java script)
- Input/Output: 4 sensor inputs and 1 relay output control
- Multiple language operation screens

## 1.3 Front Panel

Nan		Function Start video recording. To stop recording, pre		
(1)				
(2)	Menu III UP/DOWN/SELECT	Call up and exit the OSD main and sub mer		
(3)		Use the <b>UP</b> and <b>DOWN</b> buttons to change to the left and right, and <b>SELECT</b> to enter o		
(4)				
(5)	Playback/OSD Menu Control Buttons	<ul> <li>Use the buttons in playback mode to:</li> <li>Display the play list and play the play back at the start at th</li></ul>	the speed of 2x,	

Name	Function	
	II : Temporarily freeze the video playback	
	Stop video playback	
	Use the buttons in navigating OSD menu to :	
	↔ Hove to the left and right	
	II ■ : Change the setting	
	<ul> <li>Make a selection</li> </ul>	
(6) IR Sensor	: Receive the signal from the remote control to operate the unit	
(7) HDD LED	Indicate running state of the hard disk. Lights when the HDD is running	
(8) DVR Power LED-位-	Lights when the unit is on	
(9) DVD-RW Drive	For backup record video files to DVD-ROM	
(10) USB 2.0 Port	Connect to PC for video transfer or playback	

## 1.4 Back Panel



Name		Fu	unction	
(1)	LAN Port	:	For Ethernet connection	
(2)	Audio In	:	Input the audio signal from a mic or audio output device. The audio is embedded with channel 1	
			The audio input device needs to be powered by external power.	
(3)	Audio Out	:	Output the audio signal to a speaker	
			The audio output device needs to be powered by external power.	
(4)	VGA Out	:	Output the video signal to a CRT or LCD monitor	
(5)	Video Out	:	Output the video signal to a TV	
	(BNC)		The DVR unit support 2 video output ports and you can only select to output the video either from the VGA OUT or VIDEO OUT	
(6)	CH1/2/3/4	:	Input the video camera signal and display it on channel 1/2/3/4	
(7)	Audio In	:	Input the audio signal from a microphone or audio output device. The audio is embedded with channel 2, 3, and 4.	
			The audio input device needs to be powered by external power.	
(8)	Sensor In	:	Support up to 4 sensor devices	
(9)	Alarm Out	:	Support 1 relay device (Relay: 1A @ 125V AC/30V DC)	

Name	Function	
(10) RS485	: For PTZ camera connection (also see <u>1.5.3.1</u> )	
(11) TV-VGA	: Switch to select the video output. Make sure to set the video output before turning on the unit	
(12) 12V DC	: Connect the power adapter into this port	

## 1.5 Setting Up the DVR Unit

# 1.5.1 Installing Hard Disk for EB1704HB DVD/EB1504NET DVD

The DVR unit allows you to install one hard disk. Before installing the hard disk, make sure to set the hard disk master/slave jumper setting. Adjust the jumper setting according to the instructions on the hard disk label. Please set the jumper of hard disk as **Master** while there is only **one** hard disk inside the DVR.



For hard disk spec, please referring to http://www.avermedia.com/nvd/hardware-recom\_eb\_c.asp

The "compatible hard disks" indicated in the above recommendation list only means that these commercially available hard disks were tested with AVerMedia<sup>®</sup> products and functioned well under normal operation conditions. AVerMedia<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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.

Follow the illustrated instructions below to install the hard disk:

1. Loosen all screws







3. Loosen the hard disk rack 4 screws



5. Connect the end of the IDE cable and the power connector to the hard disk



7. Close the case cover and tighten screws



4. Secure the brackets on the hard disk



6. Secure the hard disk inside the unit



## 1.5.2 Installing Hard Disk for EB1504NET

The DVR unit allows you to install up to two hard disks. Before installing the hard disk, make sure to set the hard disk master/slave jumper setting. Adjust the jumper setting according to the instructions on the hard disk label. Please set the jumper of hard disk as Master while there is only one hard disk inside the DVR.

Follow the illustrated instructions below to install the hard disk:

1. Unlock the removable hard disk drawer then 2. Remove the removable rack cover pull it out





3. Connect the power connector to the hard disk 4. Carefully insert the hard disk in the (master)



5. Slide the drawer back and lock the removable keylock



removable rack then replace the removable rack cover



6. You may now connect all the cables. When the power is connected, the Power LED light  $\overline{Q}$  turns on

Before removing the removable hard disk drawer, the DVR Unit must be TURNED OFF and unlock the removable hard disk drawer keylock.

## **1.5.3 Connecting Devices**

The back panel of the DVR unit, user can connect up to 4 video cameras, 4 sensor devices, 1 alarm device, 4 audio in devices and output video to a TV or CRT/LCD monitor. Connecting the unit to a pen drive or external hard disk through USB connection for backup, then use the bundled software enables user to transfer, playback and segment the video. Follow the illustration below to make the connection.



Each time you change the video display output, the power must be turned **OFF** and **ON** to reset the DVR unit.

All connected devices need to be powered by external power.
External hard disk should be in FAT32 format



# 1.5.4 Connecting the Audio/Sensor/Relay/PTZ Camera device

The Audio In, Sensor, Alarm, and PTZ camera ports enable you to connect 3 audio inputs, 4 sensor inputs, 1 relay outputs, and 1 PTZ camera. Just connect the external audio input device, sensor, relay, and PTZ camera pin directly to the pinhole. Check the table below and locate which pinhole is assigned to sensor input and relay output.



## **1.5.4.1 Sensor and Relay pinhole allocation:**

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).

Pin #	Definition	
1	Sensor 1 Ground signal	
2	Sensor 1 signal	
3	Sensor 2 Ground signal	
4	Sensor 2 signal	
5	Sensor 3 Ground signal	
6	Sensor 3 signal	
7	Sensor 4 Ground signal	
8	Sensor 4 signal	
9	Relay signal	
10	Relay signal	
11	RS485 TX+ signal	
12	RS485 TX- signal	
13	RS485 RX+ signal	
14	RS485 RX- signal	

## Chapter 2 Operating the DVR

## 2.1 Familiarizing the Remote Control Buttons

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



Butto	n	Function		
(1)	FN	A functional key for multiple DVR system remote control		
(0)		Switch to Channel 1		
(2)		As a number key for entering password		
(0)	3 🖿	Switch to Channel 2		
(3)	3	As a number key for entering password		
(4)		Switch to Channel 3		
(4)	(7∎)	As a number key for entering password		
(5)	9=	Switch to Channel 4		
(5)		As a number key for entering password		
(6)	(5⊞)	Switch to QUAD mode		
		As a number key for entering password		

Buttor	า	Function
	2	
	4	
(7)	6	As a number key for entering password
	8	
	0	
(8)	A-B	Set a playing recorded video from A point to B point segment and repeat playing on surveillance screen(See 2.1.1)
(9)		Pause the playing
(10)		To play the video
(11)		Decrease the video playback at the speed of 2x, 4x 8x or 16x
(12)	++	Fast play the video playback at the speed of 2x, 4x 8x or 16x
(13)		Stop playing / Stop recording
(14)	<b>F</b>	USB backup(see 2.1.2)
		To move the selection to the right
		To move the PTZ camera lens to the right
		To move the PTZ camera lens to the left
(15)		To move the selection to the left
(15)		To go up and select the items in the menu list or change the settings
		To move the PTZ camera lens to go up
		To go down and select the items in the menu list or change the settings
		To move the PTZ camera lens to go down
(16)		To enter the OSD Main menu / Exit from the main menu or sub-menu display
(17)	ZOOM+	To zoom out view of PTZ camera
(17)	ZOOM-	To zoom in view of PTZ camera
		PTZ camera control button. Press PTZ + camera channel
(18)	PTZ	button( 1 = 2 3 = 4 )can enter PTZ mode to control PTZ camera.(see 2.1.3)
(10)	SPEED+	To speed up movement of PTZ camera lens
(19)	SPEED-	To speed down movement of PTZ camera lens
(0.5)	FOCUS+	To t focus in PTZ camera lens
(20)	FOCUS-	To focus out PTZ camera lens

Button		Function
(24)		Make a selection
(21)	•	Enter sub-menu
(22)	REC	Start video 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. User also can backup AB Repeat file to pen drive or external hard disk (See 2.1.2).

- Press (play button) to call out the SEARCH MODE menu to find the recorded video that user wants to playback.
- 2. Select **TIME SEARCH** or **EVENT LIST**.
  - **TIME SEARCH** (search by date and time): select the date and time from where you want to begin the video playback.
  - EVENT LIST (search by condition): select from the list.



SELECT THE BAKCUP DEVICE! USB (SELECT) / DVD( MENU)

3. During the playback, press (AB) 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 📴 button to backup the AB Repeat video file.

- 1. Set the AB Repeat file (see <u>2.1.1</u>).
- During the AB Repeat playback, press button.
- Select the backup device USB(pen drive) or DVD(DVD-ROM disk)
- 4. Plug in pen drive into USB port or place DVD-ROM disk into DVR-RW drive
- 5. And then, press (VES) to start backup file or
  - press (III) (NO) to exit backup mode.



1. The backup file will include a playback application.

- 2. For DVD-ROM backup, pleas be aware of the following attentions:
  - The total backup file maximum is 4400MB for each DVD-ROM disk
  - The total event for backup maximum is 4096 events for each DVD-ROM disk
  - Each backup recorded file is limited to 2G
  - The DVD-ROM drive write speed is 1x
  - When the DVD+RW disk is reuse, the old backup file will be deleted
  - Doesn't support multi-section.
  - Doesn't support CD-ROM/CD-RW disk
  - Direct play backup file from DVD-ROM disk is not recommended

## 2.1.3 Controlling PTZ Camera

Using remote control, user can easily control PTZ camera at local site. Before starting, please go to OSD menu to enable PTZ control (see 3.1 Menu Function: PTZ Setup).

## 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 ( $1 \oplus 2 3 \oplus 4$ ). The surveillance monitor will switch to single screen and display "**PTZ mode**" on the screen.



To exit PTZ mode, press **PTZ** and **0** button. Also, when user doesn't have any action over 1 minute, the system will automatically exit PTZ mode.

## 2.1.3.2 To Set Preset Position

User can set 9 preset positions for PTZ camera. Using 1 to 9 button to set the preset position.

- 1. Press **PTZ** and camera channel number button (1 = 2 3 = 4) to enter PTZ mode.
- 2. Using ( , , , , and ) to adjust 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 To Control PTZ Camera

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

SPEED

(¢)

SPEED+

Û

FOCUS

E

Ξ



To move the PTZ camera lens to the right



To move the PTZ camera lens to the left

To move the PTZ camera lens to go up



To speed down movement of PTZ camera lens

To speed up movement of PTZ camera lens

To focus in PTZ camera lens

To focus out PTZ camera lens



To zoom out PTZ camera



2.2 Using the DVR for the First Time

Upon connecting the power, the unit automatically detects the status of the hard disk. The hard disk must be formatted before user can use it with DVR. If you are prompt to format the hard disk, press () (select) for **YES** to format the hard disk and () (menu) for **NO** to remain unchanged.



## 2.2.1 Set up the System Date and Time

Before starting record video, adjust the date and time first.

- 1. Press (III) to call up the OSD menu and then use (A) and (IV) to go up and down and select **Submenu**. And then, press (IV) or (IV) to confirm the selection.
- 2. In Submenu, use and to go up and down and select the Time Setup and press again to make a selection. And then, use and and or or and to select the Date and press or to confirm the selection.
- 3. To adjust the date, use <a> and <> or <a> and <> buttons to move the</a>

selection to the left and right.

- 4. To adjust Time, follow the above step 2 and 3.
- 5. Press (III) to go back to main menu after adjustment.

## 2.3 Surveillance Screen

To know if the channel is being recorded, the " $\bullet$ " record symbol would appear beside the channel number. The  $\hat{\bullet}$  (microphone) and  $\Phi$  (speaker) indicate that the audio is available. The information below the screen shows the current date and time, recording mode (record schedule setting), and the percentage of the used hard disk space.





Full mode Screen Preview

QUAD model Preview

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

18)



7⊞



5⊞) CH4: Camera 4 QUAD: 4-Channel

CH1: Camera1

CH2: Camera 2

CH3: Camera 3

## 2.4 Playback the Video

The DVR system can record and playback video simultaneously. Therefore, user doesn't need to stop recording while playback the video.

1. 2.	Press Use the and buttons to go up and down and select <b>TIME SEARCH</b> or <b>EVENT LIST</b> . Then, press or to make a selection.	SEARCH METHOD TIME SEARCH EVENT LIST
TIME	E SEARCH (search by date and time):	TIME SEARCH HARD DISK : MASTER
1.	Use the 🔺 and 💌 buttons and select	START TIME : 2006/05/04 10:00:01 END TIME : 2006/05/05 13:08:13
	SEARCH TIME. Then press 🕢 or 🕩	SEARCH TIME: 2006 / 05 / 04 10 : 00 : 01
2.	again to make the selection. In the <b>SEARCH TIME</b> , user may now select the date and time from where you want to begin the video playback.	
	Use the ( and ) or ( and ) buttons	s to move the selection to the left and
	right. Use the ( ) and ( ) buttons to select the	he date and time. Then press 🕢 or
	again to make the selection.	
3.	To start video playback, the time in second must be	set. Use the <b>b</b> uttons to move the
	selection to the right most. Use the $\checkmark$ and $\checkmark$	buttons and select the time in second.
	Then press 🕢 or 🌔.	
EVE	NT LIST (search by event):	EVENT LIST HARD DISK : MASTER
1.	Use the 🔺 and 🔻 buttons to select from	S 2006/05/03 13:26:34 13:26:50 A 2006/05/03 13:00:01 13:16:46
	the list. Press 📣 or 🕩 again to make the	A 2006 / 05 / 03 12 : 00 : 01 13 : 00 : 01 B 2006 / 05 / 03 11 : 48 : 37 12 : 00 : 00
	selection. User and to go next	A 2006 / 05 / 03 11 : 30 : 23 11 : 31 : 18 A 2006 / 05 / 03 11 : 29 : 47 11 : 30 : 13 S 2006 / 05 / 03 11 : 28 : 55 11 : 28 : 58
2.	page or back to previous page. Listed below are the following recording conditions:	S 2006 / 05 / 03 11 : 28 : 55 11 : 28 : 58 B 2006 / 05 / 03 11 : 28 : 33 11 : 28 : 55 A 2006 / 05 / 03 11 : 25 : 41 11 : 28 : 52 A 2006 / 05 / 03 11 : 23 : 26 11 : 23 : 30 ▼
	<ul> <li>A – Always Recording</li> <li>It records non-stop and automatically continue recording</li> <li>S – Sensor Recording</li> <li>It records when the sensor has been triggered</li> <li>M – Motion Recording</li> <li>It records when any movement has been detected</li> <li>B – Button Recording</li> <li>It records when the REC record button is pressed</li> </ul>	rding when interrupted

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



To playback the recording files during the daylight saving period; please select **Event List** to find the event that user wants to playback. On the first day and last day of daylight saving only has one record in **Time search**, so user can't find the specific playback file in time search.

## Chapter 3 OSD Navigation Tree

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



### **Menu Function** 3.1

If the unit is currently recording the video, user may have to stop video recording to change the settings. Use remote control to navigate in the OSD menu. The red frame turns yellow when you are making a selection.



## VIDEO RECORD :

Enable/disable the channel number to record video



The channels which could be recorded should be enabled in the CAMERA SELECT first.

## AUDIO RECORD:

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

## AUDIO MUTE:

Enable/disable to hear audio sound. To hear sound. make sure the unit is connected to an audio output device (ex: speaker). If user recorded video in audio mute status, there is no sound when playback



The audio input and output device need to be powered by external power.

## **RECORD MODE :**

Select D1/CIF recording mode

Under D1 mode, 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 15fps. User can switch to view the video in full screen or QUAD screen

Whereas in CIF mode, video recording is at a lower resolution, but each video is recorded in 30fps/25fps (NTSC/PAL). User can switch to view the video in full screen or QUAD screen

MAIN MENU				
CAMERA SELECT				
VIDEO RECORD	⊡1	⊠2	⊠3	☑ 4
AUDIO RECORD	⊡1	<b>⊠2</b>	⊠3	☑ 4
AUDIO MUTE	ON			
RECORD MODE	D1			
RECORD FRAMERATE	60			
VIDEO QUALITY	GOC	DD		
RECORD SCHEDULE				
SUBMENU				
HARD DRIVE SETUP				
NETWORK SETUP				
USB BACKUP				
LANGUAGE	ÊNG	LISH		

## Description

## **RECORD FRAMERATE :**

Set the number of frames per second to be recorded. Refer to the table below for the available record frame rate settings. The higher the frame rate is, it uses more hard disk space

Video Standard Record Mode	NTSC	PAL
D1	60, 20, 4	48, 20, 4
CIF	120, 60, 40, 20, 4	100, 48, 20, 4

## VIDEO QUALITY :

Select the video quality setting from BEST, HIGH, MEDIUM, GOOD, NORMAL or LOW.

BEST – best record quality but less record hours

LOW – longest record hour but quality is ordinary

NORMAL – allows you to record more hours but the quality of the recorded video is moderate.

## LANGUAGE SETUP :

Select from the available languages

## **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 REC	Disable video recording
ALWAYS REC	Record non-stop
MOTION REC	Start recording when any movement is detected
SENSOR REC	Start recording when the sensor has triggered
BUTTON REC	Start recording when the record button is pressed

RECORD SCHEI	DULE
00:00-01:00	ALWAYS REC
01:00-02:00	ALWAYS REC
02:00-03:00	ALWAYS REC
03:00-04:00	ALWAYS REC
04:00-05:00	ALWAYS REC
05:00-06:00	ALWAYS REC
06:00-07:00	ALWAYS REC
07:00-08:00	ALWAYS REC
08:00-09:00	ALWAYS REC
09:00-10:00	ALWAYS REC
10:00-11:00	ALWAYS REC
11:00-12:00	ALWAYS REC
12:00-13:00	ALWAYS REC
$\mathbf{\nabla}$	

HARD DRIVE SETU	Р	
OVERWRITE ENABL		
HD1 SIZE	156,012MB	
HD1 USED	250MB	1%
HDD FORMAT		

- \* HD1 SIZE shows the total capacity of the hard disk.
- \* HD1 USED shows the amount of space that has been used.

## Description

## OVERWRITE ENABLED :

Enable/disable overwriting the earliest record when the hard disk space runs out. By default, the HDD overwrite setting is enabled

## HDD FORMAT :

For security purpose, you may have to enter the password to format hard disk To format hard disk:

1. Use the ( ) and ( ) buttons to go up and

down and select HDD FORMAT. Then press



2. In the CHECK PASSWORD screen, press

or 
Then use the and v buttons to select the security combination number. Repeat till you key in the last number. Also, user can use the number button on the remote control to enter the password. Press or button again to make the selection. To move the selection to the left and right, use and v buttons



- 3. After entering the last number, the system will format the hard disk
- 4. It is done when the "HDD FORMAT COMPLETED" appears



Formatting the hard disk will permanently delete all the records and can no longer be retrieved

NETWORK SETUP		
IP MODE	STATIC	
NW ENABLE	⊡1 ⊡2	$\mathbf{\nabla}$
VIDEO PORT	0800	
UPGARDE PORT	5005	

## Description

## **NETWORK SETUP:**

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

## IP MODE:

☑ 4

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

Use ( ) and ( ) buttons to go up and down and

select IP MODE, and then press ( ). Use ( ) and

▼ buttons to change the selections and press

## ( or ( ) to make a selection.

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

up and down and select items, and then press

or  $(\blacktriangleright)$  to make selection. Use  $(\blacktriangleleft)$  and  $(\blacktriangleright)$ 

to move left and right to select or enter the configuration value.

- IP ADDRESS: Assign a constant IP address which a real IP addresses give from ISP to DVR system.
  - Do Not assign the DVR to 1.0.0.0 network segment. It will cause the DVR can not access to Internet due to the un-recognize to 1.0.0.0 IP segment.
- 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: Only for user information. Don't need to enter the MAC address.
- When all parameters are set, select the **CHANGE** to confirm the configuration.

NETWORK INFORMA	
IP ADDRESS	192.168.153.100
SUB NET	255.255.255.255
GATEWAY	192.168.153.254
DNS	192.168.153.1
MAC ADDRESS CHANGE	00.00.00.00.00.00

#### **OSD MENU** Description DHCP: Assign the IP address by local DHCP NETWORK SETUP DHCP server to DVR system. Use and NW ENABLE ⊡1 80 ⊠2 ⊠3 ☑ 4 buttons to go up and down and select DHCP, and UPGARDE PORT 5005 then press $(\downarrow)$ or $(\blacktriangleright)$ to make selection. The DHCP (Dynamic Host Configuration Π 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 The DVR system will try to get an IP address from the DHCP server. A message window will show up as below: GET IP NOW! WAITING ...

When DVR system gets an IP address from DHCP server, the information will display as below:



If system didn't get any network information, it means that get IP from DHCP server fail.



2. 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. Use and buttons to go up and down and select PPPOE, and then press or to make selection. A message window will show up as below:

#### NETWORK SETUP IP MODE NW ENABLE VIDEO PORT UPGARDE PORT

STATIC ☑1 ☑2 ☑3 0080 5005

☑ 4



When DVR system get an IP address, the information will display as below:



If system didn't get any network information, it means that get IP from PPPOE server fail.



to setup PPPOE account and password for connecting to PPPOE server.

## NW ENABLE:

Allow internet remote user to playback or monitor the channels. Without enabling the network function, the channels cannot be playback or monitor from remote site.



BAKCUP

DVD BACKUP

NETWORK SETUP		
IP MODE	STATIC	
NW ENABLE	☑1 ☑2 ☑:	3 🗹 4
VIDEO PORT	0080	
UPGARDE PORT	5005	

## Description

## 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.

Use A and V buttons to go up and down and select VIDEO PORT, and then press I or A and b to move to the selection. Use A and V buttons to change the selections values and press or b to confirm.

## **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. <u>For Upgrading DVR</u> <u>firmware, please contact your local dealer.</u>



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.

Use ( ) and ( ) buttons to go up and down and

select UPGRADE PORT, and then press I or

and **b** to move to the selection. Use **and v** buttons to change the selections values and press **v** or **b** to confirm.

## BACKUP:

To backup recorded file by USB or DVD-RW. Use and 
buttons to go up and down and select backup device.

## **USB BACKUP:**

Using USB device (ex. Pen drive) to backup partial recorded video and playback on PC.

Use ( ) and ( ) buttons to go up and down and

select USB BACKUP, and then press ( ) or ( ).

Use ( ) and ( ) to move left and right. And, use

▲ and ▼ buttons to change the value and press ↓ or ▶ to confirm.

- 1. Select the **START TIME** and **END TIME**.
- 2. Select the channels which user wants to backup.
- 3. And then, select **BACKUP EXECUTE** to start backup video to the USB device.

### Description





- 4. When backup is done, press any key to back to main menu.
- 5. To view the backup file, using playback application that is including in backup file.(also see 4.3)



- Remember to plug in the USB device before starting to backup.
- The DVR system doesn't supply the power to external hard disk. Therefore, the external hard disk must be power supplied by self.
- The backup file will include a playback application.

## **DVD BACKUP:**

To backup the recorded files on DVD-ROM by DVD-RW. There are some matter needing attentions that show as following:

- The maximum backup file is 4.2G for each DVD±R/DVD-RW
- The maximum events size for backup is 4096 events for each DVD±R/DVD-RW
- Each backup recorded file is limited to 2G
- The DVD-ROM drive write speed is 1x
- When the DVD+RW disk is reuse, the old backup file will be deleted
- Doesn't support multi-section.
- Doesn't support CD-ROM/CD-RW disk
- Direct play backup file from DVD±R/DVD-RW is not recommended

## • DVD-ROM Disk and Speed Supported:

Туре	Speed
DVD+R	18x, 16x, 12x, 8x, 6x, 4x, 2.4x
DVD-R	18x, 16x, 12x, 8x, 6x,4x, 2x, 1x
DVD+RW	8x, 6x, 4x, 3.3x, 2.4x

DVD BAKC	UP			
TIME SET				
START	: 20	06/0	5/04	10:00:01
END	: 20	06 / 0	5 / 05	13:08:13
BACKUP C BACKUP S BACKUP E	ZE	⊠1	⊠2	⊠3 ⊠ 4 89MB

DVD BAK				
TIME SET				
START	: 2	2006 / 05	5/04	10:00:01
END	: 2	2006 / 05	5 / 05	13:08:13
BACKUP	CHANNEL SIZE EXECUTE	⊡1	<b>⊠2</b>	☑3 ☑ 4 89MB

## Description

How to Backup:
Use 🔺 and 🔻 buttons to go up and down and
select USB BACKUP, and then press 📣 or 🌔.
Use 🕢 and 🅟 to move left and right. And, use
and v buttons to change the value and
press 🕡 or 🅟 to confirm.

- 1. Place DVD-ROM disk into DVD-ROM drive
- 2. Select the START TIME and END TIME.
- 3. Select the channels which user wants to backup.
- 4. And then, select **BACKUP EXECUTE** to start backup video to the DVD-ROM disk.

USAGE OF USB WILL STOP NETWORK FUNCTIONS! YES(SELECT) / NO(MENU)	
BACKUP EXECUTE	
	80%
USB REMAINDER SIZE	820MB

- 5. When backup is done, press any key to back to main menu.
- 6. To view the backup file, using playback application that is including in backup file.(also see <u>4.3</u>)

## AUTO RECORD :

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

## MUTLIPLE REMOTE:

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

SUBMENU		
AUTO RECORD	OFF	
MULTIPLE REMOTE	OFF	
REMOTE ID	1	
VIDEO SYSTEM	NTSC	
PASSWORD SETUP		
VIDEO ADJUSTMENT		
TIME SETUP		
SENSOR SETUP		
MOTION SETUP		
AUTO SCAN		
PTZ SETUP		

SUBMENU	
AUTO RECORD	OFF
MULTIPLE REMOTE	OFF
REMOTE ID	1
VIDEO SYSTEM	NTSC
PASSWORD SETUP	
VIDEO ADJUSTMENT	
TIME SETUP	
SENSOR SETUP	
MOTION SETUP	
AUTO SCAN	
PTZ SETUP	

## Description

### **REMOTE ID:**

Assign the ID number for multiple DVR system remote controls. When there are more than one DVR systems, user can enable **MULTIPLE REMOTE** function, and then assign **REMOTE ID** to each DVR system. Then, user can just use one remote control to control all DVR system by pressing **REMOTE ID**. To remote control

multiple DVR systems, press (FN) and number key

(remote ID number) on the remote control.

## VIDEO SYSTEM:

DVR system will auto detect the video system and display

PASSWORD SETUP PASSWORD SETUP NO SUPERUSER USER(NETWORK)

### 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.

Use the number button on the remote control to enter

the password. Or use ( ) and ( ) or ( )

and **I** button to the select the security

combination number. Press 
or 
button to confirm.

contirm.

## SUPERUSER:

Superuser 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.

PA	SSWORD SETUP	
CURRENT	*****	
NEW	*****	
CONFIRM	*****	

### **USER(NETWORK):**

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.

PA	SSWORD SETUP	
CURRENT	*****	
NEW	*****	
CONFIRM	*****	

VIDEO ADJUSTMENT	
CAMERA	1
BRIGHTNESS	050
CONTRAST	050
HUE	000
SATURATION	024
RESET TO DEFAULT VALUE	NO

## Description

## VIDEO ADJUSTMENT :

Select the camera number and set to adjust the video brightness, contrast, hue, and saturation value.

TIME SETUP	
DATE	2007 / 03 / 12
TIME	15 : 45 : 57
AUTO SYNC TIME	OFF
TIME ZONE	GMT
LAST SYNC TIME	2007 / 03 / 12
	12:00:00
DAVI IGHT SAVING	

## TIME SETUP:

Setup system date, time, daylight saving, and enable auto synchronize time through network.

## DATE :

Set the current date

## TIME :

Set the current time

### AUTO SYNC TIME:

Enable/disable time synchronization automatically through network. The DVR system will auto synchronize time from NTP servers. The first time synchronize will be 6 hours later after system power up. When the daylight saving is enabling, the auto time synchronization will be stopped.



- User need to setup the NTP server's URL or IP address. Please go to 8.1.1.1 System Setting #(3) NTP Setting to setup the NTP server.
- If the NTP server doesn't setup, the auto synchronize time function will not work correctly.

### TIME ZONE:

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

### LAST SYNC TIME:

Display the latest time synchronization date and time.

#### DAYLIGHT SAVING DAYLIGHT SAVING: OFF 2007 / 03 /10 YLIGHT START To enable/disable daylight saving function. 00:00 END 2007 / 10 /09 START: 00:00 TIME OFFSET 00 : 00 Setup daylight start up date and time. END: Setup daylight stop date and time. 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.

SENSOR SETUP	
SENSOR REC TIME	010 SEC
ALARM OUT TIME	010 SEC
CHANNEL - 1	NOT INSTALLED
CHANNEL - 2	NOT INSTALLED
CHANNEL - 3	NOT INSTALLED
CHANNEL - 4	NOT INSTALLED
VIDEO LOSS ALARM	⊠1 ⊠2 ⊠3 ⊠4

## Description

## SENSOR REC TIME :

Set the amount of time (in second) to start record when the sensor has triggered

## ALARM OUT TIME:

Set the amount of time (in second) to continue sending the alarm once triggered

## CHANNEL 1~4 :

Customize the initial state of the attached sensor. Refer to the table below to customize the sensor state

Condition	Description	
NOT INSTALLED	Indicates that there is no sensor connected	
NORMAL OPEN	Indicates that the initial state of the sensor is normal open. Video recording initiates when there is a changes in the sensor state	
NORMAL CLOSE	Indicates that the initial state of the sensor is normal close. Video recording initiates when there is a changes in the sensor state	

## VIDEO LOSS ALARM:

The DVR system will buzzer when channel video loss.

MOTION SETUP MOTION CAMERA SENSITIVITIY MOTION RECORD TIME 010 SEC	<ul> <li>MOTION CAMERA :</li> <li>Enable/disable the channel number to detect motion.</li> <li>SENSITIVITY :</li> <li>Set the sensitivity level. The sensitivity is from H (High), 9~ 2 and L (Low).</li> <li>MOTION RECORD TIME :</li> <li>Set the amount of time (in second) to record when motion is detected.</li> </ul>
AUTO SCAN AUTO SCAN CHANNEL - 1 CHANNEL - 2 CHANNEL - 3 CHANNEL - 3 CHANNEL - 4 O SEC CHANNEL - 4	AUTO SCAN : Enable/disable auto cycle switch to display the next channel when in full screen preview. User can set different switch time for each channel. The time range is from 5 ~30 seconds.

PTZ SCAN	
CAMERA	1
PTZ CONTROL	(
PTZ ID	(
PROTOCOL	F
BAUD RATE	2
AUTO PAN	1
DWELL TIME	(

OFF

00

PELCO-D

SEC

## Description

## PTZ SETUP:

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

- 1. Press  $\bigcirc$  and select SUBMENU  $\rightarrow$  PTZ SETUP.
- 2. Use the ( and to go up and down to select the item and change the parameter value.
- 3. Use or button to enter the configure mode. Press or button to confirm

the selection.

### CAMERA:

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.

### PTZ CONTROL:

To enable/disable PTZ camera can be controlled by remote control at local site.

### PTZ ID:

Assign an ID to PTZ camera. The ID range is from 001 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 star from 5 to avoid conflict with ID of camera channels.

## **PROTOCOL:**

Select the protocol of PTZ camera. The protocol will be differenced that depends on the brand of PTZ camera. The DVR system currently supports 2 protocols — PELCO-D and PELCO-P. 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: 1-3 means the PTZ camera will auto move from preset position 1, 2 and 3.

## DWELL TIME:

Set a time that how long the IP PTZ camera stays in that position before it moves to the next one.
# Chapter 4 Using the USB Playback Console

## 4.1 Recommended system requirements

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

# 4.2 Installing the USB Playback Console

To install the USB Playback Console:

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



2. Select the language you prefer

Select the language for this installation from
the choices below.
English

- 3. Click **OK** to install the application
- 4. Click **Exit** to close the installation main screen. You may plug in the pen drive or external hard disk now.

# 4.3 Running the USB Playback Console



Name	Function	
(1)	Video playback screen	
	To select the video file for playing. The playback application supports *.dvr and *.avf file.	
	Select File Type	
(2) Open File	File Type for Playback • DVR Recorded File (HD) • Backup File (.dwr) • 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.	
	(Also see <u>4.3.2</u> )	
	<ul> <li>Backup File(.dvr): The file is backup and save in *.dvr file format. (Also see <u>4.3.3</u>)</li> </ul>	
	<ul> <li>Backup File(.avf): The file is backup and save in *.avf file format. The recorded video backup to pen drive and DVR-ROM is in *.avf format.</li> </ul>	

Nam	ne l	Function
		Select the event you want to playback. The event list only available
(3)	Event List	subset       subset
(4)	Full screen	Use the entire area of the screen to only display the video. To return, press the right button of the mouse or <b>ESC</b> on the keyboard. When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.
(5)	Segment	Keep a portion of the recorded video (see also <u>4.3.1</u> )
(6)	Output	Save the segmented file in *.mpg or *.avi format (see also 4.3.1).
(7)	Snapshot	Capture and save the image either in *.jpg or *.bmp format
(8)	Print	Print the image
(9)	HDD Backup	To call out HDD Backup application. (See <u>Chapter 5</u> )
(10)	iEnhance	To call out iEnhance application. (See <u>Chapter 7</u> )
(11)	Watermark	To call out ImageVerification application. (See Chapter 6)
(12)	Status Bar	Display the recorded date, time and play speed.
(13)	Progress Bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(14)	Playback Controller	<ul> <li>Begin: Move at the beginning of the recorded video file.</li> <li>Previous: Go back to the previous frame by frame.</li> <li>Slower: Play the recorded video file at the speed of 1/2X, 1/4X, or 1/8X.</li> <li>Rewind: Wind back the recorded video file.</li> <li>Pause: Briefly stop playing the recorded video file.</li> <li>Play: Play the recorded video file.</li> </ul>
		<ul><li>Faster: Play the recorded video file at the speed of 2x, 4x, or 8x.</li><li>Next: Go to the next frame by frame.</li><li>End: Go to the end of the recorded video file.</li></ul>
(15)	Split Screen Mode	Select from different screen view to playback the recorded video file of the entire camera or one camera on screen.
(16)	Exit/ Minimize the application or chose Cancel to go back to the application          Exit         Exit         Minimize         Cancel	

#### Name

#### Function

(17) Sound /Sound bar

Turn on and off the sound Increase and decrease the volume

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

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



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



- 3. Click **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 **File Select** window appears. Select the event that user wants to play and click **OK**.



## 4.3.3 Playback Backup File(\*.dvr)

- 1. Click Open File button.
- 2. Select Backup File(\*.dvr) and click OK.
- 3. Locate the backup file folder and click **OK**.



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

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



# Chapter 5 Backup Recorded Video File

## 5.1 Recommended system requirements

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

## 5.2 Familiarizing with HDD Backup Application



Nan	ne	Function
(1)	All recorded video	No.: the list order number
	events list	Record: the record type(see also Chapter 2.3.1)
		Begin Time: the beginning of record time
		End Time: the end of record time
(2)		Display first frame of each recorded channel video which user had selected.
(3)	Progress bar	Show the progress of the event being played. User may move the bar to seek at any location of the track
(4)	Source Disk	To select the hard disk drive
		Select Disk
		HDD Size Name
		0 298 GBytes US8STOR\Disk&Ven_WDC_W 1 37 GBytes US8STOR\Disk&Ven_ST34001
		OK Cancel

Nam	e F	Function
(5)	Target Path	To locate on where user want to save the file
(6)	Event (%)	Display the backup progress rate of event in percentage
(7)	Total (%)	Display the total backup progress rate in percentage
(8)	Stop	Stop backup progress
(9)	Start	Start backup progress
(10)	Select All	Select all listed recorded video events. Click the check box again to cancel for selecting all events.

## 5.3 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:

s	elect D	isk	×
	HDD	Size	Name
	0	298 GBytes	USBSTOR\Disk&Ven_WDC_W
	1	37 GBytes	USBSTOR\Disk&Ven_ST34001
		OK	Cancel

- 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 4.3.3.

# Chapter 6 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.

# 6.1 To Run the ImageVerification

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



# Chapter 7 iEnhance

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

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



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

Name	Function	
(12) Noise Reduce	Adjust the softness and repair the damaged colours.	
(13) Sharpness	Improve the overall image by enhancing edges. This gives the image more depth.	
(14) Effects Gray Scale: convert the image into black and white (monocl		
	Normalize: adjust the brightness intensity.	
	Equalize: automatically adjust the images that are too dark.	
	De-interlace: smooth out the overlying frames.	
	Static: de-interlace for motionless scene.	
	Dynamic: de-interlace for moving scene.	
(15) Picture Adjustment	Adjust the Brightness, Contrast, Saturation, Hue and Gamma.	
(16) Original Screen	Display the original state of the image.	
(17) Temporary Setting Block	Display the sample settings. Click the sample to apply the setting on the current video.	
(18) Status Bar	Display the date, and time of the video.	
(19) Progress Bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.	
(20) iStable	To reduce the jolt in the recorded video.(also see Chapter 7.1)	
(21) Add Setting	Include the new setting to the temporary setting block.	
(22) Rename	Change the name of the selected setting in the temporary setting block.	
(23) Delete	Permanently remove the selected setting in the temporary setting block.	
(24) Load Setting	Call the saved settings.	
(25) Save Setting	Store the settings in the temporary setting block.	

# 7.1 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.
- When the initialize is done, user will see the original and stabilized recorded video play in two windows. The original video on the right side of window and



the stabilized video on the left side of window.

# Chapter 8 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 you PC and DVR server both are connected to the internet and the Network feature is enabled.

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

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



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



For Window Vista, please make sure that use administrator account to run browser. To switch to administrator account, go to **Start**  $\rightarrow$  **Internet Explorer**  $\rightarrow$  **Run as administrator**. 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 User ID (Superuser or User) and password (default password

is 11111) and select the type of network. Superuser has the authority to remote setup the DVR system configuration on Web Viewer.



Changing the Superuser and User default password is strongly recommended.



# 8.1 Familiarizing the Web Viewer Buttons

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



(10) SnapshotCapture and save the screen shot in \*.bmp format.(11) Full screenUse the entire area of the screen to only display the video.<br/>To return, Right click the mouse or press ESC on the keyboard.

Name	Function
(12) 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 <b>Add Server</b> 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 <b>Export</b> to save the list.
	Click <b>Apply</b> All to change all the camera video quality based on the
	selected setting.
	Click <b>OK</b> to exit.
	Select Camera
	Add Server Delete Server Import Export
	No.         IP Address         Camera Name         Display         Video Quality         A           01         127.001:80         Camera 1         ✓         -         -
	02 127.0.0.1:80 Camera 2 √ - 03 127.0.0.1:80 Camera 3 √ -
	04 127.0.0.1.80 Camera 4 ✓ - 05 127.0.0.1.80 Camera 5 ✓ -
	06 127.0.0.1:80 Camera 6 🗸 –
	07 127.0.0.1:80 Camera 7 V - 08 127.0.0.1:80 Camera 8 V -
	09 127.0.0.1:80 Camera 9 🗸 –
	10 127.0.0.1:80 Camera 10 V -
	12 127.0.01.90 Camera 12 V
	OK Apply All

## 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.



- Only the superuser has the authority to change remote DVR system settings.

## 8.1.1.1 System Setup

Ĭ

	System 🔀
(1) (2)	- 🗖 Auto Scan - 🗖 Audio mute
(3)	NTP Setting Enable NTP Time Zone: GMT 0:00
(4)	DLS         Time Offset:         60         v           Start Time:         2007/01/01 00:00
	OK Cancel

## (1) Auto Scan

Enable/disable auto cycle switch to display the next channel when in full screen preview. User can set different switch time for each channel. The time range is from  $5 \sim 30$  seconds.

### (2) Audio mute

Enable/disable to hear audio sound of local DVR. To hear sound, make sure the unit is connected to an audio output device (ex: speaker). If user recorded video in audio mute status, there is no sound when playback

## (3) NTP Setting

Setup the time auto synchronization.

### - Enable NTP

Enable/disable time synchronization automatically through network. The DVR system will auto synchronize time from NTP servers which user has entered in following server 1 and server 2 column. The first time synchronize will be 6 hours later after system power up.



When the daylight saving is enabling, the auto time synchronization will be stopped.

### TIME ZONE:

Select the time synchronization time zone. The time zone will base on GMT

(Greenwich Mean Time) time zone.

- Server 1/Server 2

Fill in the network time server URL or IP address (clock.stdtime.gov.tw or time.stdtime.gov.tw)

## (4) DLS

Setup daylight saving settings.

- Enable DLS

To enable/disable daylight saving function.

- START

Setup daylight start up date and time.

- END

Setup daylight stop date and time.

## - 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.

## 8.1.1.2 Camera Setup

	Camera Setup	
(1)	- Camera 04 💌	
(2)	– Preview Enable 🔽 🛛 Network Audio Enable 🔽 ——	— (3)
(4)	C Analog Camera 🙃 IP Camera	
	Protocol XIS      Resolution: Default       IP:      C URL Command      Http://      NULL      Password:      NULL	
	OK Cancel	

## (1) Camera

Select the camera that user wants to set up.

## (2) Preview Enable

Enable/disable the camera channel to display the video on the surveillance screen

### (3) Network Audio Enable

Enable/disable the audio sound record when recording the video through network.

## (4) Select the Camera attribute

- Analog Camera

#### i. Video Adjustment

Select the camera and adjust the Brightness, Contrast, Hue and Saturation of the selected camera.

#### ii. Default Value

Set the video value back to default

Camera Setup
Camera 01 💌
Preview Enable 🔽 Network Audio Enable 🔽
Analog Camera     O IP Camera
Brightness 128
Contrast 128
Hue 128
Satruration 128
Default Value
OK Cancel

#### - IP Camera(only support for EB1704HB DVD)

#### i. Protocol / Resolution

When the camera is an IP camera, select the protocol and resolution of IP camera.

ii. IP

Fill in the IP address and connection port of IP camera.

#### iii. URL Command

If the IP camera has a URL address instead IP address, user can enter the URL address for IP camera connection.

iv. ID

If the IP camera has setup the authority security for accessing, please fill the login ID account in here.

#### v. Password

Fill the password for accessing IP camera.

Camera Setup
Camera 04 💌
Preview Enable 🔽 Network Audio Enable 🔽
C Analog Camera 📀 IP Camera
Protocol AXIS     Resolution: Default
IP: : 0
C URL Command
Http:// NULL
ID: NULL
Password: NULL
OK Cancel

## 8.1.1.3 Record Setup



#### (1) Record Select

Enable/disable the channel number to record video



The channels which could be recorded should be enabled in the **CAMERA SELECT** first.

#### (2) Audio Record CH

Enable/disable channel number audio recording. To record sound, make sure

the microphone is connected to the unit

#### (3) Record Mode

Select D1/CIF recording mode. Under D1 mode, the resolution of video recording is 720 x 480/720 x576. Each channel is recorded at a maximum frame rate of 15fps. You can switch to view the video in single full screen or 4 split screen. Whereas in CIF mode, video recording is at resolution of 360 x 240/360 x 288, but each video is recorded in 30fps/25fps (NTSC/PAL).

#### (4) Record Frame Rate

Set the number of frames per second to be recorded. Refer to the table below for the available record frame rate settings. The higher the frame rate is, it uses more hard disk space

Video Standard Record Mode	NTSC	PAL
D1	60, 20, 4	48, 20, 4
CIF	120, 60, 40, 20, 4	100, 48, 20, 4

### (5) Video Quality

Select the video quality setting from BEST, HIGH, MEDIUM, GOOD, NORMAL or LOW.

### (6) Auto Record

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

### (7) Disk Overwrite Enable

Enable/disable replacing the earliest record when the hard disk space runs out. By default, the HDD overwrite setting is enabled

### (8) Motion Detection

### - Motion Camera

Enable/disable the channel number to detect motion.

### - Motion Record Time

Set the amount of time (in second) to record when a motion has detected.

(3)

### - Sensitivity

Set the sensitivity level. The sensitivity is from high, 9~ 2 and low.

## 8.1.1.4 Alarm/Sensor Setup

	Alarm/Sensor Setup	
(1)—	Alarm Setup	E-Mail Setup
(1)	Mail Alarm Enable	SMTP
	Alarm Out Time 10 Sec	User ID
(0)	Sensor Setup	Password
(2)—	Sensor Status 1 Not Installed 💌	From
	2 Not Installed 💌	То
	3 Not Installed	Subject
	4 Not Installed	Message
	Sensor Record Time 10 💌 Sec	
		OK Cancel

## (1) Alarm Setup

## - Mail Alarm Enable

Enable/disable alarm sending mail when alarm has triggered or motion has detected.



The Motion Detection must be enabled first, the alarm sending mail will send out the mail when detect motion.

## Alarm Out Time

Set the amount of time (in second) to continue sending the alarm once activated

### (2) Sensor Setup

#### Sensor Status

Customize the initial state of the attached sensor for every camera. Refer to the table below to customize the sensor state.

Not installed: Indicates that there is no sensor connected

Normal open: Indicates that the initial state of the sensor is normal open.

Video recording initiate when there is a changes in the sensor state

Normal close: Indicates that the initial state of the sensor is normal close. Video recording initiate when there is a changes in the sensor state

#### Sensor Record Time

Set the amount of time (in second) to record after the sensor has been triggered

### (3) E-Mail Setup

- SMTP

Enter the SMTP server IP

- User ID & Password

Enter User ID and Password for e-mail server user identification

- From

Enter the sender e-mail address

- То

The recipient e-mail address and separate it with a semicolon

- Subject

Enter the message title

- Message

Type the message

## 8.1.1.5 Network Setup

	Network Setup						
1)—	– IP Mode 🕟 Sta	atic IP 🔿 DHCP	C PPPOE		Server Port	80 -	(2)
	Static IP						
	IP		•	User ID			
	Mask	· ·	•	Password			
	Gateway			DDNS			
	DNS			Domain Name Auth Key		+	(3)
			•	Addrikey			
					ОК	Cancel	

### (1) IP Mode

- Static IP

Assign a fixed and global IP address for the DVR system

IP: Assign a constant IP address which real IP addresses from ISP.

**Mask:** Enter the subnet mask of the IP address which user has assigned to DVR system.



It is a bitmask used to tell how many bits in an octet(s) identify the subnetwork, and how many bits provide room for host addresses.

Gateway: Enter the network gateway IP address

**DNS:** Domain Name Server translates domain names (such as www.abb.com.tw) to IP addresses. It will translate the domain name into IP address when DVR system request.

## - DHCP

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



The Dynamic Host Configuration Protocol (DHCP) 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.

**User ID & Password:** fill in the user account and password that user applied from your ISP for PPPOE connection.

## (2) Server Port

A port is using for the remote connection. Any port can be assigned as a server port, except the ports already used by the network services.

## (3) DDNS

DDNS (Dynamic Domain Name Service) is a data query service mainly used on

the Internet for translating domain names into Internet addresses. Users can register their own domain name on http://www.ddns.avers.com.tw. (See

Appendix A)

- Domain Name

Enter the domain name that user wanted.

- Auth Key

A password use to access DDNS to register the domain name. MAC address of the DVR system is the key for user to register the domain name on AVerMedia DDNS web site. To find MAC address of your DVR system, follow the steps below:

- 1. In OSD menu, select NETWORK SETUP
- 2. Select any one of IP mode
- 3. A **NETWORK INFORMATION** windows will show up
- 4. MAC address of DVR system is display as shown

## 8.1.1.6 Password Change

Click **Remote setup** button on Web Viewer main interface, and then, click **User** button to call out the **Password Change** interface.

	Password Change
(1)—	SuperUser
(1)	Password
	Password Confirm
	User
(2)—	Password
	Password Confirm
	OK Cancel

#### (1) Superuser

Change the remote accessing password of super user. Superuser has the authority to remote setup the DVR system configuration on Web Viewer.

- Password

Enter the new password

- Password Confirm
- Re-enter password to confirm

#### (2) User

Change the remote accessing password of user

- Password
  - Enter the new password
- **Password Confirm** Re-enter password to confirm



# 8.2 Familiarizing the Remote Console Buttons

(13)	
Name	Function
(1) Exit	Close the Remote Console.
(2) Audio button	Enable/disable the sound.
(3) Split Screen Mode	Select from six (6) different split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.
If there are only 4 mode.	cameras, you won't be able to switch to 9, 16, and 13 split screen
(4) Record	Start/stop video recording.
(5) Network	Enable/disable remote system access. This feature allows you to access EB DVR server from a remote location via internet connection.
(6) Setup	Configure the Remote Console setting. (see also Chapter 8.2.1)
(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 <u>Chapter 8.4</u> )
(9) Status Bar	Display the current date, time and hard disk free space.
(10) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(11) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.
(12) 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.
(13) DirectDraw	Enable/disable DirectDraw function
Direct Draw function Contact your VGA	ction supports for certain VGA card. For more information, please card vendor.

## 8.2.1 To Setup Remote Console Setting

Click Setup button to call out the System Setting windows. Click OK to exit and

2	ystem Setting		
_	Storage Path		
	Folder Name	Free Space	Disk Space(Used)
	C:\RemoteData	15.58G	30.00G
	ļ		(
	Enable network s	Add	Delete
_	Language		
	Language	English	T
-	Remote Server		
	Server IP	92.168.153.169	
	Server Port	0	
_	Channel Settings		OK Cancel

save the setting and Cancel to exit without saving the setting

#### (1) Storage Path

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

- Enable network storage

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



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

#### (2) Language

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

#### (3) Remote Server

Enter the DVR Server IP and Server Port number.

#### (4) Channel Settings

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

Channel Set	lings							2
	ting Cha	annels -						
1	<b>₽</b> 2		₹4	5	6	7	8	
9	10	11	12	13	14	15	16	
✓ All Visible C	nannels							
☑ 1	2	₩з	✔4	5	6	7	8	
9	10	11	12	13	14	15	16	
		OK		C	ancel			

## 8.3 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 <b>OK</b> to exit and save the setting and <b>Cancel</b> to exit without saving the setting.
(4) Focus +/-	Adjust the focus manually to produce clear image.
(5) 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.

## 8.4 Using the Remote Playback

To use this feature, first you need to select the source of the file. Click the **Playback** button. And then, in the Select Playback Mode dialog box, choose **Local Playback** to open the file that is recorded in the Remote Console, and **Remote Playback** to open the file that is recorded in the DVR server. When you choose Remote Playback, select **Download and Playback**.



Click OK to proceed and Cancel to void this operation.



In the Video Playback Date/Time Selection, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 represent the camera number.

				▲ 2006年9月 ▶								OK												
				Sur	1	Mor	1	Tue	)	We	d	Thu		Fri	- 8	Sat						С	ance	el
				27		28		29		30		31		1		2	-							
				З		4		5		6		7		8		9								
				10		11		12		13		14		15		16								
				17		18		19		20		21		22		23								
				24		25		26		27		28	<	29		30								
				1		2		З		4		5		6		7								
-	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01																								
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14																								

#### To Make a Selection:

- 1. Select the date in the calendar. Use **I** and **I** buttons to shift the calendar to the left or right.
- In the table below, click on the blue block to select and open the recorded file. The blue block turns red when it is selected. The block that appears in white doesn't have data. You can only select one block when you choose Download and Playback.
- 3. Click **OK** to proceed and **Cancel** to void this operation.
- 4. If you select Download Playback and after making the selection, the system divides the selected hour into 16 video thumbnails. In the Time Selection screen, click on the video thumbnail you want to download (see also <u>Chapter 8.3.2</u>).



#### á 5-5 Full screen (13)Snapshot (12)2 3 (11)Segment Dennye OB 5 6 7 (10)(9) 14 15 (8) (7) 05 06 07 08 09 10 11 12 13 14 15 16 18 19 20 21 22 23 (3)(4)(5)(1) (2)(6)Function Name Select from six (6) different split screen type to playback the (1) Split Screen Mode recorded video file of all the camera, or one camera over the other or alongside on a single screen. - If there are only 4 cameras, you won't be able to switch to 9, 16, and 13 split screen mode. To zoom in an area on the screen, Right click and Drag a square on the area you want to enlarge. To back to normal view, right click the channel screen again. Show the progress of the file being played. You may move the bar (2) Progress bar to seek at any location of the track. (3) Hour Buttons Select and click to playback the recorded video file on the specific time frame. The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. If there is no recorded data within the hour, there will be no color bar on top of the hour button. While the red bar indicates that you are currently viewing the recorded video file. Begin: Move at the beginning of the recorded video file. (4) Playback Control Previous: Go back to the previous frame. **Buttons Slower:** Play the recorded video file at the speed of $\frac{1}{2}x$ , $\frac{1}{4}x$ , or $\frac{1}{8}x$ . 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, or 8x. Next: Go to the next frame. End: Go to the end of the video file. (5) Date Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file. The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 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.

## 8.4.1 Familiarizing the Local Playback Buttons

(6) Preview	
-------------	--

Name	Function
(7) Playback	Switch to Playback mode. This allows you to view the recorded video file.
(8) Status bar	Display the record date, time, HDD capacity in preview mode and play speed in playback mode.
(9) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(10) Output	Save the segmented file in *.mpg, *.avi, or *.dvr format (see also <u>Chapter 8.3.1.1</u> ).
(11) Segment	Keep a portion of the recorded video you want (see also <u>Chapter</u> 8.3.1.1).
(12) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.
(13) Full screen	View in Playback-compact mode. To return, press the right button of the mouse or ESC on the keyboard.

## 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 Output button to save the wanted clip.

**I**nh

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

Save As		? 🔀
Save jn: 🞯	Desktop 💌 🗲 🋍 (	-* 📰 -
Hy Docume My Compul My Networ Picture	er	
File <u>n</u> ame:	2005_11_25_7_56_24	Save
Save as <u>t</u> ype:	MPEG Files (*.mpg)	Cancel
	MPEG Files (*.mpg) AVI Files (*.avi) DVR Files (*.dvr)	

# 8.4.2 Familiarizing the Download and Playback Buttons

			(8) (7)
<b>Keye</b>	File: 20051227_10	03.dvr	
Rad			(6)
(a at			(5)
(1)	(2)	(3)	(4)

	(1) (2) (3) $(+)$		
Name	Function		
(1) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.		
(2) Playback	Begin: Move at the beginning of the video file.		
Control Buttons	Previous: Go back to the previous frame.		
	<b>Slower:</b> Play the recorded video file at the speed of 1/2x, 1/4x, or 1/8x.		
	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, or 8x.		
	Next: Go to the next frame.		
	End: Go to the end of the video file.		
(3) Date	Open other file.		
(4) Output	Save the segmented file in *.mpg or *.avi format.		
(5) Print	Print the screen shot.		
(6) Save	Save the screen shot either in *.jpg or *.bmp format and video in *.dvr format.		
(7) Segment	Keep a portion of the recorded video you want. You may follow the instruction in <u>Chapter 8.3.1.1</u> .		

# Chapter 9 Using Handy Viewer to Access DVR server

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

## 9.1 Using PDA Viewer to Access NV DVR Server

Users can also use a PDA to access the NV 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 PDA Viewer thru ActiveSync

- Connect your PDA to your PC. Place the CD into the CD-ROM drive then click Install PDA Viewer. And follow the on screen instructions.
- 2. Click **Next** to continue.

- 3. Read the license agreement and click **Yes** to accept all the terms. The system will then automatically install the application.
- 4. When you are prompted, click **Yes** to install the application using the default directory.



5. When done, click **OK**.

Application Downloading Complete
Please check your mobile device screen to see if additional steps are necessary to complete this installation.
OK

## 9.1.2To install PDA Viewer from the Internet

Make sure you are connected to the internet.

 Open the web browser and enter the server IP. Then click the hyperlink **Download PDA-Viewer**.



ls 💠 🔁 🚰 🛫

net Explo 🧣 🗱 📢 12:59

Download the 1.46 MB file 'PDA-Viewer.cab' to the 'My Documents' folder in Main Memory? ✓ Open file after download Yes Change Cancel

×

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

After the installation, the PDA-Viewer icon will appear in the Programs list.

View Tools 🔇	🗘 🕄 🖨	? <b>6</b>	<b>⊠ </b> ^
🎊 Progran	ns 💡	<b>#                                    </b>	8
		<b>&gt;</b>	
Games	Calculator	File Explore	er
25	<u></u>	X	
MSN Messenger	PDA-Viewer- 5.5	Pocket Exc	el
1	W		
Pocket MSN	Pocket Word	Terminal Services Client	
		E	=

## 9.1.3 To Use the PDA Viewer

- 1. Run the **PDA-Viewer** in the Programs.
- 2. Familiarizing the PDA Viewer buttons.





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 PDA viewer.(see <u>Chapter 8.6.4</u>)

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

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



## 9.1.4 To Playback in PDA Viewer

- 1. Run the **PDA-Viewer** in the Programs.
- 2. Hook up to the NV 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

Image: Polylewer     Image: Camera I       Camera ID     Camera I       [ Playback Date and Time ]       Image: Camera I       Image: Polylewer       Image: Polylewer	1 2	5	
[ Playback Date and Time ] <b>2007</b> $$ $/3$ $$ $m/21$ $$ d 19 $$ $h/0$ $$ $m/0$ $$ s		🏂 PDAViewer	- 🚓 📢 07:40 🔞
[ Playback Date and Time ] <b>2007</b> $$ $/3$ $$ $m/21$ $$ d 19 $$ $h/0$ $$ $m/0$ $$ s		Comerci D. Comerc	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
		2007 🔻 7/ 3	▼ m/ 21 ▼ d
PlayBack Cancel		19 🔻 h/ 🛛	▼ m/ 0 🔻 s
PlayBack Cancel			
<u>م</u> د		PlayBack	Cancel
<b>^</b>   ד			
◄  ټ			
			<b>▲</b>   ⊄

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



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



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

# 9.2 Using Java-Viewer to Access DVR Server

Using the mobile phone within Symbian Smart Phone OS to access the NV 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.

#### To install JAVA-Viewer 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 JAVA-Viewer will be in your mobile phone system. To find the JAVA-Viewer program where is located, please refer to your mobile phone user's manual.



- DVR server only provides one channel video at time and transmits one frame per second to JAVA-Viewer.
- When there is a multiple JAVA-Viewer connection, DVR server will transmit the last JAVA-Viewer' request to all JAVA-Viewers.
- Please assign the port that besides port 80 as JAVA-Viewer video port.

## 9.2.1 To Use the JAVA-Viewer

- 1. Run the JAVA-Viewer 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 DVR server.
- 4. Click **Yes** to accept the data from DVR server.
- 5. When connection is success, you will see the camera video on the screen.
- 6. To switch to different camera view, select menu and select the channel.
- 7. The JAVA-Viewer support PTZ control function, you can refer to **Help** file for detail function control key. Select **menu** and go the way down to select the **Help** file.



# Chapter 10 Using Central Managment System

The AVerMedia<sup>®</sup> CM3000 is a central management system that enables user to monitor up to 1000 DVR servers (optional) through an internet connection. The CMS system also automatically records and displays video when an event has occurred on the remote side of the DVR server. You can also playback video files locally or download from a remote DVR server. The CMS system Supports Single, Dual, Triple, and four monitor displays. User can operate the CMS system application on different monitors. For dual monitor setup, please refer to Appendix B.



# **10.1 Software Installation**

This section describes how to install the CM3000 software.

- Before installing the software, make sure the Windows OS patches are up to date and the video graphic card driver is up to date.

- For Windows 2000, make sure the hyper-threading setting is **DISABLED** from the PC BIOS system.

## **10.1.1 Minimum System Requirements**

First, must verify if the computer meets the minimum system requirements.

CPU	Pentium® 4 3.0GHz or above recommended
OS	Windows 2000 / XP Professional
RAM	512MB for dual display,1GB for Quad display
Hard disk	120GB or higher
Media	CD-ROM drive
VGA	32-bit high color SVGA graphics card with 128MB video memory and DirectDraw® / YUV Rendering Capability
Audio	Sound card and speakers
Internet capacity	10/100/1000 Base-T Ethernet card or Gigabit Ethernet
## 10.2 Installing the CM3000 in Windows XP/2000

- Place the installation CD into the CD-ROM drive then click Utility. And select the CM3000 folder and click setup.exe. And then, follow the on-screen instructions.
- 2. Please carefully read the license agreement. Click **Yes** to accept the agreement.

3. Enter the administrator ID and password for entering CMS system.

4. Click Finish.



5. User may now run the CMS program. To run the application, click **[m]** on your PC desktop or click **Start>Programs >DSS>CMS > CMS3000**.

## 10.3 Using the CM3000

## 10.3.1 Running the CM3000 Software

To run the application, double-click 🚂 on your PC desktop or click Start >

#### Programs > DSS > CMS > CM3000.

≅ 💽 # st	Turn Off Computer					🔹 🕫 🚟 🐿 6:01 PI
Windows 0	Log Off Administrator					
× 🗐	Run					
Se 🔇	Help and Support					
Professional	Search	÷	Ľ	\$		
In State	Settings	÷		VCDCutter Windows Media Player	•	
	Documents	,	ñ	055		🚰 сиз 🗕 💇 СМХООО
177	Programs	•		Accessories CyberLink PowerProducer Express	;	
	Nero Home					
3	VCDCutter					
2	Windows Update					
20	Windows Catalog					
- 💎	Set Program Access and Defaults					

For security purposes, some of the features would require you to enter a User ID and Password before they can be accessed. When the Authorization dialog box appears, key in your User ID and Password. (If this is the first time to enter CMS system, enter the one you have registered when installing the software.)

Authorization
Please enter your user ID and password.
User ID
Password
OK Cancel

## **10.3.2 Using the CMS Application**

When an alarm occurred on the DVR server, the video is transmitted to the CMS and played on the CM3000 main screen. The transmitted video is approximately 3 seconds long. You may download and playback the complete video directly from the DVR server. The video stream before the eye indicates the latest occurrence. Also, there is a red frame which indicates the latest occurrence.



For the best video play quality, we recommend that user set the record frame rate at 60fps in DVR system(also see <u>Record Frame Rate in</u> <u>Chapter 3.1 Menu Function</u>)



Name	Function
(1) Exit	Call up the Logout dialog box. In the logout dialog box, you may do the following: Image: Call up the Logout dialog box, you may do the following:           Image: Call up the Logout dialog box, you may do the following:           Image: Call up the Logout dialog box, you may do the following:           Image: Call up the Logout dialog box, you may do the following:           Image: Call up the Logout dialog to access this command.           Image: Call call to close the CMS program. Only the administrator is authorized to access this command.           Image: Call call to close the Logout dialog box.           Image: Call call to find out more about the software and register the CMS application. Click Register to call out the registration window. Enter the serial number in the Serial number column and click OK to complete the registration.           Image: Call call to the tegister to call out the registration window. Enter the serial number in the Serial number column and click OK to complete the registration.           Image: Call to the tegister to call out the registration window. Enter the serial number in the Serial number column and click OK to complete the registration.           Image: Call to the tegister to call out the registration window. Enter the serial number in the Serial number column and click OK to complete the registration.
	To get the register serial number, please contact your local dealer and give activator key of product. And then, user will have the register serial number to complete product registration and also CMS system will be upgraded to 1000 DVR servers management.
(2) Monitor (F4)	Switch to display live video from the selected DVR servers group. If user is using a single monitor, press <b>ESC</b> to revert back to the CMS main application.
(3) E-map (F3)	Switch to display the map and show the location of the NV DVR server on the map. If you are using a single monitor, press <b>ESC</b> to revert back to the CMS main application.

Name	Function	
	automatically when the CM software starts up. The network is using port 80 so please make sure you are not running any web server or application that locks port 80 on the PC with the CM3000 software.	
(6) Setup	Configure the CMS system settings. Only the administrator is authorized to access this command. (see also $\underline{Chapter 9.4.1}$ )	
(7) Playback	Select to playback video from the local hard disk or remote DVR server.	
(8) Event log	Show a record of activities that has taken place in the system (see also $Chapter 9.5.4$ ).	
(9) Status	Display the current date, and time	
(10) Log extender	Expand and reduce the log viewer	
(11) Log viewer	List the entire info in event mode or text mode from all DVR servers.	
<ul> <li>display mod</li> <li>F1: displ</li> <li>F3: Swite</li> <li>F4: Swite</li> </ul>	few Hot keys for quick switching between the different applications or de on a single monitor system. ays current DVR server information on the CMS application main screen ches to E-Map mode ches to Monitor mode itches back to the CMS application main screen	

## **10.4 Customizing the CMS System**

In the CMS application, click the Mean button to customize the CMS system. When the CMS configuration setup selection appears, select and click the buttons

you want to change the setting.



## 10.4.1 System Setting

In the System Setting dialog box, click **OK** to accept and start to reload the new setting, and **Cancel** to exit without saving.



### (1) Alarm Record Path

By default, the alarm folder is automatically generated to where the CMS application is installed and for saving the alarm clip videos and log files. The suggested hard disk capacity for storing the recorded video is 30GB (see also 9.4.1.1)

### (2) Language

Customize the system to display the tool tips and dialogs based on the selected language. By default the set language is in English (see also 9.4.1.2)

### (3) Miscellaneous

Date Format - Select from different date formats (see also 9.4.1.3)

### (4) Configuration

Import / Export the CMS system configuration

## **10.4.1.1** To change the Alarm Record Storage Path

- 1. Click Setup.
- 2. In the Authorization dialog box, enter the administrator User ID and Password.



4. The text below the Alarm Record path text box shows the hard disk free space and total space in parenthesis.

0010.		
System Setting		
Alarm Record path	C:\Program Files\DSS\CM	
	Free Space 19.46G (30.00G)	
Language		
Language	English	
Miscellaneous		
Date Format	mm/dd/yy	
Configuration		
Import	Export	
ОК	Cancel	

5. In the System Setting dialog box, click **OK** to start reloading the new setting and **Cancel** to exit without saving the new setting.

## **10.4.1.2** To Set the System to a Different Language

- 1. Click Setup.
- 2. In the Authorization dialog box, enter the administrator User ID and Password.
- 3. Click System.
- 4. In the Language drop down list, click and select the language.

### **10.4.1.3** To Change the Status Date Format

- 1. Click Setup.
- 2. In the Authorization dialog box, enter the administrator User ID and Password.
- 3. Click System.
- 4. In the Date Format drop down list, click and select the style.
- In the System Setting dialog box, click OK to accept the new setting and Cancel to exit without saving the new setting.

## 10.4.2 DVR Setup

Display the list of all DVR servers. User may add up from 16 to 1000 DVR servers, delete and modify the DVR setting.



To monitor up to 1000 DVR servers may vary on CMS support. Please confirm with your local dealer for more information.

## 10.4.2.1 To Add and Remove DVR Server

- 1. Click Setup.
- 2. In the Authorization dialog box, enter the administrator User ID and Password.
- 3. Click DVR.
- 4. In the DVR Setup section, click **Add** to insert, **Delete** to remove and **Edit** to modify DVR server setting.



- 5. To continue adding a DVR, in the text box, enter the name, IP/Domain, Login User, Password, Confirm Password of the remote DVR server.
- 6. If necessary, fill up the contact information to let the personnel in the CMS side know whom to get in touch with when an event has occurred.
- 7. Set the **Storage Path** for saving the recorded video data of the selected cameras on the Monitor screen.
- 8. Set the max video recorded storage capacity of this DVR server on the CMS system server. Enter the value in **Quota**.

DVR settings			
Name		Contact Information	
		Phone	
IP/Domain		Mobile	
Port	80		
Login User		Email	
Loginosei		Address	
Password			
Confirm Password		Description	
		Description	
Video Quality	Normal 🗨		J
Remote Control port		🗖 Shov	v POS message
Storage Path	c:\Storage	Free Space 15	5.07G (30.00G)
Quota	3 GB		K Cancel

9. In the **DVR Setting** dialog box, click **OK** to accept the new setting and **Cancel** to exit without saving the new setting.

## 10.4.3 Camera Setup

Select the camera from different DVR servers in order to monitor on same screen.

The selected cameras will be play on **Monitor** screen (see <u>Chapter 9.3.2 # 2</u>).

- 1. Click Setup.
- 2. In the Authorization dialog box, enter the administrator User ID and Password.
- 3. Click Camera.
- 4. Select the DVR server. And then the cameras of the DVR server will display on

the Camera Select window.

- 5. Select the camera that user wants to add, and then click Add button. The camera will be added to Monitor Layout window. User can add up to 64 cameras by select the camera display format from 4x4, 5x5, 6x6, 7x7, and 8x8 format. To remove the camera from the Monitor Layout window, select the camera and click Delete button. To delete all cameras, click Clear All button.
- 6. To record the cameras video, mark the **Record** box. Otherwise, the cameras video will not be saved on the CMS system hard disk. When playback the recorded camera video, user need to select the DVR server.
  - DK Silect No. Dvice 192.064:55.162 OK Dvice 192.064:55.162 Add Al Finance Finance Add Al Finance Finance Corcel Add Al Finance Corcel Add Al Finance Corcel Add Al Finance Corcel C
- 7. Click **OK** to save the setup. To exit without saving, click **Cancel**.

## 10.4.4 E-MAP Setup

Holds up to 64 maps in \*.bmp/\*.jpg format. The map is hierarchy in structure and users can add a map on another map. User also may add the DVR icons on the map.

### 10.4.4.1 To Set Up the E-Map

- 1. Click Setup.
- 2. In the Authorization dialog box, enter the administrator User ID and Password.
- 3. Click E-Map.
- 4. The E-Map interface will show up in second monitor if user is using multiple monitors for the CMS system. If user is using single monitor for the CMS application, the E-Map interface will show up in front of the CMS application interface. Press **Esc** to switch back to CMS application interface or press **F3** to switch to E-Map interface again.
- 5. On the E-Map interface:
  - (1) go back to previous layer of map
  - (2) Show the current name and layer of map
  - (3) Load a map to replace the current map
  - (4) Add a new map. The new map is added on the current map as a next level.(See <u>Add a New Map</u>)
  - (5) Display the selected Map or DVR server information.
  - (6) Add a DVR server icon on the map. (See <u>Add a DVR Server</u>)

- (7) Click **OK** to save the setting and exit the E-Map interface.
- (8) Click **Cancel** without saving the setting and exit the E-Map interface.



#### 10.4.4.1.1 Add a New Map

- 1. Click me button
- 2. In the Authorization dialog box, enter the administrator User ID and Password
- 3. Click E-Map button
- 4. Click Add Map button and the Map setting window will show up.

Map setting	
Name	MAP 001
Map file	C:\Program Files\DSS\CM30(
(OK	Cancel

- 5. Give a name for the new map.
- 6. Click do locate the map file. In the open dialog box, locate and select the map and click Open

Open			? 🛛
Look jn:	) CMS CMMS Colayback Colayback Colayback Datz Magaback.bmp	<b>▼ €</b>	
File name: Files of type:	  JPEG, Bitmap Files (".jpg,".bmp)  □ Open as gead-only	×	<u>O</u> pen Cancel

- 7. User may now drag and move the Map icon to its place on the map.
- 8. User can double click the Map icon to view the map.
- To edit and delete the map, click the map icon and Edit and Delete button will appear on the Map interface. Click Edit to modify the map (see <u>Add a New Map# 5~6</u>). To delete the map, click the map icon and click Delete button.
- 10. Click **OK** to accept the new setting and **Cancel** to exit without saving the new setting.
  - 0
- User can add up to a total of 64 maps
- User also can right click the mouse button on the map, a function list window will show up. User can select the function to add and modify the map.



### 10.4.4.1.2 Add a DVR Server

- 1. Click model button
- In the Authorization dialog box, enter the administrator User ID and Password
- 3. Click E-Map button
- 4. Click Add DVR button and the Add DVR window will show up.
- 5. Select the DVR server from the Add DVR window and click OK.

A	dd DYR	
	DVR	Name
		[Add a new DVR]
	001	DVR01
	1	
	OK	Cancel

- 6. User may now drag and move the DVR icon to its place on the map. Non-active white DVR icon cannot be placed on the map.
- To edit and delete the DVR server on the map, click the DVR server icon and the Edit and Delete buttons will appear on the Map interface. Click Edit to modify the DVR server (see <u>9.4.2.1 # 5~10</u>). To delete the DVR server from the map, click the DVR server icon and click Delete.
- 8. Click **OK** to accept the new setting and **Cancel** to exit without saving the new setting.





User also can right click the mouse button on the map, a function list window will show up. User can select the function to add, delete, and edit the map.

## 10.4.4.2 To Use the E-Map

When the alarm has been activated, the DVR icon blinks and turns red.

1. On the CMS main application, click **E-map** or press **F3**.



- 2. Click the DVR server icon and a **DVR watch** window will show up and connect the DVR server to play the live video.
- 3. To stop the DVR server icon from blinking, right click the mouse button and select **Reset Alarm** or **Reset Alarm (all**) and the remote DVR server alarm will reset and the DVR server icon will stop blinking.
- 4. To switch back to the main application, press **ESC**.
- To setup the E-Map, click setup button or right click the mouse button and select E-Map setup and the E-Map interface will switch to the E-Map setup mode. (see <u>9.4.4.1</u>)



When the setup mode is active in E-Map interface, the setup mode will not work in CMS main application. To switch back the setup mode in CMS main application, click **OK** or **Cancel** to exit the setup mode in E-Map interface.

6. User can click the Map icon on the map to view the map. And the map can be added map on map and up to 64 maps. (see <u>Add a New Map</u>).

## 10.4.5 Alarm Setting

In the **Alarm Setting** dialog box, just select and enable the condition for the system to alarm and the action for the system to perform when an alarm is activated. User can setup a total of 16 different combinations of alarm settings. Each alarm setting can apply to several DVR servers. Click **OK** to accept new setting and **Cancel** to exit without saving.

### 10.4.5.1 To setup an alarm condition

- 1. Click the Add button to add a new alarm condition.
- 2. Give the name of this alarm condition.
- 3. Fill the simply description of this alarm condition in **Description** column.
- 4. Select the **Conditions**.
- 5. Select the Action. ( see also <u>9.4.5.1.1</u> & <u>9.4.5.1.2</u> & <u>9.4.5.1.3</u> )

larm Setting			
T DVR VI	boot WR tion loos tion success deo Loos rd disk failed	Cesorption	Detail Detail Detail Detail
No. 1	Name Alarm1	De	scription
Add	Delete		ж Cancel

6. Apply to the DVR server, click **Select DVR**. In Select DVR window, select the DVR server and click **Add**. To exit and save the setup, click **OK**.



#### 10.4.5.1.1 To Setup the Send E-Mail Setting

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

	E-Mail Setting Mail Server
(1)-	SMTP Server AskTech.security.com : 25
(.)	Authentication
	ID Password
	-Mail Message
	From: JohnSmith@security.com AskTech Alarm Event Report
(2)-	To: MikeGonzalez@security.com
``	CC:
	Subject: AskTech Alarm Event Report
	HTML format support     Test Account
(3)-	Email Notice Setting
$(3)^{-}$	Notice Interval 5 Minute
	-Modern Dial up Setting
(4)-	Auto Dial up
(.)	T Auto Disconnect after: 1 Minute
	OK Cancel

### (1)Mail Server

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

#### (2)Mail

To check if it is working, click the Test Account button.

**From**: Enter the sender e-mail address.

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

**Subject:** Enter the message title.

**Message:** Type the message.

#### (3)Email Notice Setting

In the Notice Interval text box, set the period of time before it sends another e-mail notice.

#### (4)Modem Dial up Setting

If you are using dial up modem, enable Auto Dial up check box and select the modem name. You may also set the time to disconnect automatically, just enable the Auto Disconnect after check box and set the time.

#### 10.4.5.1.2 To Set the MMS/SMS Setting

To use this feature, GSM/GPRS modem is required. Connect the GSM/GPRS modem to the serial COMM port of PC. Beside the SMS/MMS check box, click Detail.

MS7SMS Setting		
ComPort :	COM1 .	Modern Setup
Modern Baud Rate :	115200 bps 🔹	
Local Phone Number :	+225911560061	
Phone Num :	+225912343303	-
🕫 Enable		
SMS Setting		
Message Text :		
<ul> <li>Enable</li> <li>MMS Setting</li> </ul>		
APN :	mydestany	) :
Wap Proxy IP :	63.3.2.5	
MMSC :	http://mms.mydestiny	.net:99002/
Message Text :		
Test		Save Cancel

- 1. Select the port number in **ComPort** drop down list from where the GSM/GPRS modem is connected.
- 2. Click **Modem Setup** button to automatically detect the Modem Baud Rate.
- 3. In Local Phone Number text box, enter the GSM SIM card phone number.
- 4. In Phone Num text box, enter the contact number.
- 5. You may now set to send thru SMS &/or MMS. If you enable SMS setting, just enter the message in the text box. If you enable MMS, enter the APN name, WAP IP, MMS address and the message. If you are not sure, please contact your mobile service provider.
- 6. Click **OK** to accept the new settings and **Cance**I to exit without saving.

#### 10.4.5.1.3 Launch the program

To call up the external program that is provided by a 3rd party. Click Detail and click to locate the program path. Enable the **Multiple instance** check box if the external application has been programmed to execute repeatedly.

Launch program Setting		X
🔲 Multiple instances		
Path		
Parameters		
	OK	

## 10.4.6 User Setting

CMS is limited to one operator and one administrator user account only. If there is an existing account, the old one will be replaced.

User Setting			
Authorization		Administrator	
Name Description	1	Password Confirm Password	
	OK	Cancel	<u>```</u>

### 10.4.6.1 To Set the User Setting

- 1. Select the type of user. Only the administrator is authorized to close and customize the CMS system.
- 2. In the text box, enter the name, description, password, and confirm password of the user.
- 3. Click **OK** to accept the new settings and **Cancel** to exit without saving.

## 10.5 Using the Playback Function

User can choose to playback video stored on the local hard disk or download the video from the remote side of the DVR server.

## 10.5.1 To Playback the video

- 1. Click
- 2. In the **DVR Playback select** window, select DVR server and **Local Playback** to play video from the local hard disk or **Remote Playback** from the remote DVR server.



For Local Playback, user can select to preview 16 channels at a time. <u>Only the cameras previously selected in Monitor and with the Record button enabled /recorded can be played back.</u> In the Video Playback Date/Time Selection, the numbers from 00 to 23 represent the time in 24-hour. The numbers from 01 to 16 represent the camera number. The blue block indicates that there is a

recorded video file in that period of time. While the red bar indicates the selected recorded video for viewing (see also <u>Chapter 9.5.2</u>)

4. For Remote Playback, you can only select to preview one clip at a time. In the Remote Playback Date/Time Selection, the numbers from 00 to 23 represent the time in 24-hour. The numbers from 01 to 16 represent the camera number. The blue block indicates that there is a recorded video file on that period of time. While the red block indicates the selected recorded video for viewing (see also Chapter 9.5.3).





5. For Remote Playback, in Time Selection, click the frame you want to view.



## 10.5.2 Using the Local Playback Application

(1) (2) (2)	(7) (7) (7) (7) (7) (7) (7) (7)
Name (1) Split Screen Mode	<b>Function</b> Select from six (6) different split screen types to playback the recorded video file of all the cameras, or one camera over the other or alongside on a single screen.
wode.	e only 4 cameras, you won't be able to switch to 9, 16, and 13 split screen nto an area on the screen, <b>Right</b> click and <b>Drag</b> a square on the area you
(2) Exit	Close the Player.
(3) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(4) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
(5) Playback Control Buttons	<ul> <li>Begin: Move to the beginning of the recorded video file.</li> <li>Previous: Go back to the previous frame.</li> <li>Slower: Play the recorded video file at the speed of ½x, ¼x, or ½x.</li> <li>Rewind: Wind back the recorded video file.</li> <li>Pause: Briefly stop playing the recorded video file.</li> <li>Play: Play the recorded video file.</li> <li>Faster: Play the recorded video file at the speed of 2x, 4x, or 8x.</li> <li>Next: Go to the next frame.</li> </ul>

Name	Function
(6) Date	Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.
16 represent video file on	s from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to t the camera ID. The blue colored column indicates that there is a recorded that period of time. While the red colored column indicates on where to start recorded video file.
(7) Status bar	Display the recorded date, time and play speed.
(8) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(9) Output	Save the segmented file in *.mpg, *.avi, or *.dvr format (see also 4.3.1).
(10) Segment	Keep a portion of the recorded video you want (see also 4.3.1).
(11) Print	Print the screen shot.
(12) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.
(13) Full screen	View in Playback-compact mode. To return, <b>Right</b> click the mouse or press <b>ESC</b> on the keyboard. When you switch to full screen in multiple-screen mode, <b>Left</b> click to toggle to only display one of the video in the multiple-screen mode or all.
(14) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second (See also <u>9.5.3.2</u> ).
(15) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search only.
(16) Event Search	Search from the recorded activities that take place in the system (i.e., Sensor, Motion, Video Loss, POS) (See also <u>9.5.3.3</u> ).
(17) Intelligent Search	Search the changes in the motion detector frame (See also <u>9.5.3.4</u> ).

## 10.5.3 Using the Remote Playback Application



Name	Function
(1) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(2) Playback Control Buttons	<ul> <li>Begin: Move to the beginning of the recorded video file.</li> <li>Previous: Go back to the previous frame.</li> <li>Slower: Play the recorded video file at the speed of ½x, ¼x, or ½x.</li> <li>Rewind: Wind back the recorded video file.</li> <li>Pause: Briefly stop playing the recorded video file.</li> </ul>

Name	Function		
(2) Playback	Play: Play the recorded video file.		
Control Buttons	Faster: Play the recorded video file at the speed of 2x, 4x, or 8x.		
	Next: Go to the next frame.		
	End: Go to the end of the recorded video file.		
(3) Date	Open other file.		
(4) Output	Save the segmented file in *.mpg, or *.avi, format.		
(5) Print	Print the screen shot.		
(6) Save	Save the screen shot either in *.jpg or *.bmp format and video in *.dvr format.		
(7) Segment	Keep a portion of the recorded video you want. You may follow the instruction in <u>9.5.3.1</u> .		

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

Save jn: 🔀	Desktop	▼ ← B	🖆 🔟 •
My Docume My Compub My Network Picture	er		
File pane:	2005_11_25_7_56_24		Save
-			

## **10.5.3.2** 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**.

Visual Search Setting	
Camera	1 -
25 Days before	12/25/2005 💌
ОК	Cancel

3. When a series of frames appear by date, click on the frame to display another series of frames and search by every Hour of that date, every Minute of that hour,

every 10 Seconds of that minute, every Second of that 10 seconds. To go back, click \_\_\_\_\_. To view from the selected frame and close event search, click \_\_\_\_\_.



## 10.5.3.3 To Search Using the Event Search

- 1. Click on the video screen on where you want to search.
- 2. Click **Event Search**. The Event Search text (red) would appear at the lower left corner of the screen.
- 3. In the Event Search Setting dialog box, check the type of condition you want to search. If you select POS, in the Find Text box, type the word. Then, click **OK** to

start searching. The video search would stop at the frame that matches the condition. To keep on searching, click

- 4. You may also set to search and list all the result. Just check the Output Event List box. In the Search Duration section, set the Begin Time, End Time and Searching Interval. Then, click OK to start searching.
- 5. When the Event list appears, click and select the item you want to view.

	Event	Time	^
1	VL .	2005 11/25 07:56:19	
2	VL	2005 11/25 07:56:49	
3	VL .	2005 11/25 07:57:20	
4	VL	2005 11/25 07:57:50	
5	VL	2005 11/25 07:58:21	
6	VL.	2005 11/25 07:58:52	
7	VL	2005 11/25 07:59:22	
8	VL	2005 11/25 07:59:53	
9	VL	2005 11/25 08:00:24	
10	VL	2005 11/25 08:00:55	
11	VL	2005 11/25 08:01:26	
12	VL	2005 11/25 08:01:56	
13	VL.	2005 11/25 08:02:26	
14	VL	2005 11/25 08:02:57	1
<		>	

## 10.5.3.4 To Search Using the Intelligent Search

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



## 10.5.4 Using the Event Viewer

Show the record of activities that take place in the system. To filter the records, select and click the option button to only display Alarm, Motion, DVR Reboot, HDD fail, Login DVR, Connection Success, Connection Loss or All Event. Click **Refresh** to update the list and **Save** to save the list in \*.txt format.

C Alarm C D	VR Reboot 🛛 🤉 Connectio	on Success	deo Loss	006年 9月 4日	-
C HDD fail C Lo	igin DVR C Connectio	on Loss 🤄 🖉	I Event	Save	Refresh
Time	Type	DVR	Camera	Note	
2006/09/04 13:22:30	Alarm	DVR01	1	ALARM index=529	2
2006/09/04 13:22:30	Alarm	DVR01	2	ALARM index=529	2
2006/09/04 13:22:29	Connection Success	DVR01		CONNECT SUCCES	6
2006/09/04 13:19:54	Alarm	DVR01	2	ALARM index=516	7
2006/09/04 13:19:54	Alarm	DVR01	1	ALARM index=5167	
2006/09/04 13:19:43	Alarm	DVR01	2	ALARM index=5157	
2006/09/04 13:19:43	Alarm	DVR01	1	ALARM index=5157	
2006/09/04 13:19:32	Alarm	DVR01	2	ALARM index=5146	
2006/09/04 13:19:32	Alarm	DVR01	1	ALARM index=5146	
2006/09/04 13:19:22	Alarm	DVR01	2	ALARM index=5136	
2006/09/04 13:19:21	Alarm	DVR01	1	ALARM index=513	5
2006/09/04 13:19:11	Alarm	DVR01	1	ALARM index=512	5
2006/09/04 13:19:11	Alarm	DVR01	2	ALARM index=512	5
2006/09/04 13:19:10	Connection Success	DVR01		CONNECT SUCCES	6
2006/09/04 13:09:27	Alarm	DVR01	2	ALARM index=454	5
2006/09/04 13:09:27	Alarm	DVR01	1	ALARM index=454	5
2006/09/04 13:09:16	Alarm	DVR01	2	ALARM index=453	4
2006/09/04 13:09:16	Alarm	DVR01	1	ALARM index=453	4
2006/09/04 13:09:05	Alarm	DVR01	1	ALARM index=452	3
2006/09/04 13:09:05	Alarm	DVR01	2	ALARM index=452	3
2006/09/04 13:08:54	Connection Success	DVR01		CONNECT SUCCES	5
2006/09/04 13:08:54	Alarm	DVR01	1	ALARM index=451	3
2006/09/04 13:08:54	Alarm	DVR01	2	ALARM index=451	2 0

## Appendix A Registering Domain Names

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

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

#### 1. User Login

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

User Login			
CD-Key No.			
Product	EB1304NET 💌		
10	Reset		

First input the MAC address of your DVR system as CD-Key number and select the product name. The CD-Key of MAC address input format shall be 12 digits without colon (:) or hyphen (-).To find MAC address of your DVR system, follow the steps below:

- In OSD menu, select **NETWORK SETUP**
- Select any one of IP mode
- A NETWORK INFORMATION windows will show up
- MAC address of DVR system is display as shown
- Then click **OK** to login or **Reset** to clear the previous input.

#### 2. User Information

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

User Information				
Host Name	AVerMedia	*		
Domain Name				
Password	skolok	*		
Confirm Password	kolek	*		
	odysseus@ms1.url.cor	*		
Company	AVerMedia			
Country	Taiwan	•		
0	Reset			

## Appendix B Dual Monitors setting

Video configuration is different for each different VGA chipsets. Please follow the steps below to setup the dual monitors display.

## Graphic card with ATi chipset

1. Enter the ATI Catalyst Control Center, user can click the short-cut or right click on the screen.

<u> </u>	ATI CATALYST(R) Control Center		
Catalyst Control Center	Arrange Icons By Refresh	,	
$\geq$	Paste Paste Shortcut		
My Documents	New	•	
	Properties		

2. There are two modes to select — Basic and Advanced.



3. If user selected Basic mode, press the **Quick Settings** tab. Then select the **Select a different desktop mode** and click **Go**.

ATI CATALYST®	Control Center - Basic	
What Would You Select an Easy Sel	Like to Do? up Wizard or Quick Settings, then click Go.	<b></b>
Easy Setup Wizards	Quick Settings Information Center	
Change a setting	or Select a setting and click Go	
➡ Display Setup ❤ 3D Qualty ঔ Video Playback	Change the desktop area (resolution) Select a different desktop mode Set the Extended Desktop configuration Rotate the desktop image	Extended, or Stretch).
		<u> </u>
Advanced		< Back Exit

4. Select the Extended Desktop and then click Finish.



- 5. If user selected the Advanced mode, click the **View** button.
- 6. In **Display Manager**, right click on the second Display on the right side and select **Extend Main onto monitor**.

🔁 View 🕞 🍄 Hotkeys 🕞	Profiles - 🏰 Preferences - 🕜 Help -
Graphics Settings	
Welcome     Welcome     w Information Center     → Displays Manager	Displays Manager
Display Options E E Monitor Properties 0	Graphics Adapter : 1.RADEON 9600 SERIES [A150K1]
🗉 🥸 3D	Desktop and Display Setup
¥ Wideo SMARTGART™ F VPU Recover	Mair:
	Extend Main onto monitor           To ma         Clone Main with monitor           Stretch Main horizontally onto monitor           GERE         Stretch Main vertically onto monitor
	A150K1 [ Single ]
<u> </u>	Desktop area:         Color quality:         Refresh rate:           1024 x 768         High (32-bit)         75 Hz           Rotation:         Totalion:         1000 x 10000 x 10000 x 1000 x 1000 x 1000 x 1000 x 10000 x 1000 x 1000 x 10
	Standard Landscape (0')
Basic	OK Apply Discard Defaults

7. Adjust each monitor resolution to 1024x768.

## Graphic card with NVIDIA chipset

- 1. Click the NVIDIA nView, and select the **Dualview** mode.
- 2. Adjust each monitor resolution to 1024x768.

Plug and Play M General	Adapter	WIDIA GeFord	ce 6600 P ?
Color Manage	ment	S 1	GeForce 6600
12 View nView allows you to c	1	e displays to a sir	NVIDIA. ngle graphics card.
nView Display Mode:	Single dis	play	~
Current display:	Single dis Clone Horizonta Vertical S Dualview	l Span pan	
Make this the prin	iing on second		
Detect D	risplays		vice Settings >>

3. To review if the display mode is correct, you can check the task bar. The task bar will show on the first monitor only.



**Monitor 1** 

Monitor 2

#### **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

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

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

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

#### EXCLUSION OF DAMAGES

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

#### LIMITATIONS OF IMPLIED WARRANTIES

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

#### STATE LAW AND YOUR WARRANTY

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

#### **CONTACT INFORMATION**

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