AVerMedia[®] AVerDiGi EB1504 MPEG4/MPEG4⁺ Real Time Security DVR

User Manual



Download from Www.Somanuals.com. All Manuals Search And Download.

FCC NOTICE (Class A)



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

Federal Communications Commission Statement

NOTE- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference 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.

CAUTION ON MODIFICATIONS

To comply with the limits for the Class A digital device, pursuant to Part 15 of the FCC Rules, this device must be installed in computer equipment certified to comply with the Class A limits. All cables used to connect the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non-shielded cables may result in interference to radio or television reception.

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

European Community Compliance Statement (Class A)



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

DISCLAIMER

No warranty or representation, either expressed or implied, is made with respect to the contents of this documentation, its quality, performance, merchantability, or fitness for a particular purpose. Information presented in this documentation has been carefully checked for reliability; however, no responsibility is assumed for inaccuracies. The information contained in this documentation is subject to change without notice.

In no event will AVerMedia be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or inability to use this product or documentation, even if advised of the possibility of such damages.

TRADEMARKS

AVerMedia is registered trademarks of AVerMedia TECHNOLOGIES, Inc. IBM PC is a registered trademark of International Business Machines Corporation. Macintosh is a registered trademark of Apple Computer, Inc. Microsoft is a registered trademark and Windows is a trademark of Microsoft Corporation. All other products or corporate names mentioned in this documentation are for identification and explanation purposes only, and may be trademarks or registered trademarks of their respective owners.

COPYRIGHT

© 2007 by AVerMedia TECHNOLOGIES, Inc. All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form by any means without the written permission of AVerMedia TECHNOLOGIES, Inc.



THE MARK OF CROSSED-OUT WHEELED BIN INDICATES THAT THIS PRODUCT MUST NOT BE DISPOSED OF WITH YOUR OTHER HOUSEHOLD WASTE. INSTEAD, YOU NEED TO DISPOSE OF THE WASTE EQUIPMENT BY HANDING IT OVER TO A DESIGNATED COLLECTION POINT FOR THE RECYCLING OF WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT. FOR MORE INFORMATION ABOUT WHERE TO DROP OFF YOUR WASTE EQUIPMENT FOR RECYCLING, PLEASE CONTACT YOUR HOUSEHOLD WASTE DISPOSAL SERVICE OR THE SHOP WHERE YOU PURCHASED THE PRODUCT.

Battery Safety Information

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



WARNING

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



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.

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

Table of Contents

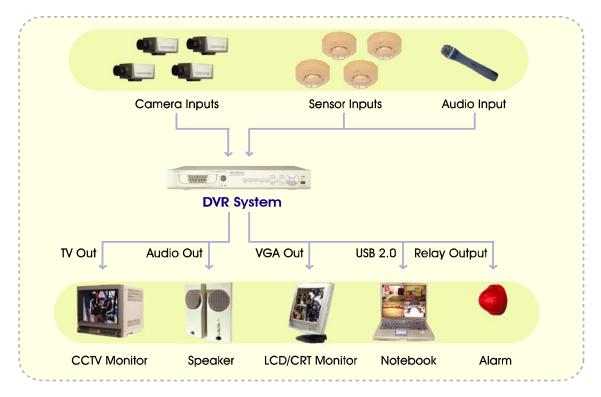
Chapt	er 1 Introduction	1
1.1	Package Contents	2
1.2	Features and Specifications	2
1.3	Front & Side Panel	3
1.4	Back Panel	5
1.5	Setting Up the DVR Unit	5
1.5	.1 Installing the Hard Disk	5
1.5	2 Connecting Devices	8
1.5	.3 Connecting the Sensor/Relay device	9
1.6	Familiarizing the Remote Control Buttons	10
Chapt	er 2 Operating the EB DVR System	12
2.1	Using the EB DVR System for the First Time	12
2.1	.1 Set up the System Date and Time	12
2.2	Surveillance Screen	
2.3	Playback the Video	
2.3	.1 To Playback Video	13
Chapt	er 3 OSD Navigation Tree	
3.1	Menu Function	
Chapt	er 4 Using the USB Playback Console	21
4.1	Recommended system requirements	21
4.2	Installing the USB Playback Console	
4.3	Running the USB Playback Console	
4.3		
4.3	5	
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	
-	er 6 ImageVerification	
6.1	To Run the ImageVerification	
-	er 7 iEnhance	
7.1	To Use iStable	31

Chapter 1 Introduction

AVerDiGi EB1504 MPEG4/MPEG4⁺ is a 4-channel stand-alone DVR unit that provides real-time monitoring and digital recording of surveillance video. Up to four video cameras and four sensor devices can be hooked up to this DVR unit. It also provides one audio input and output channel.

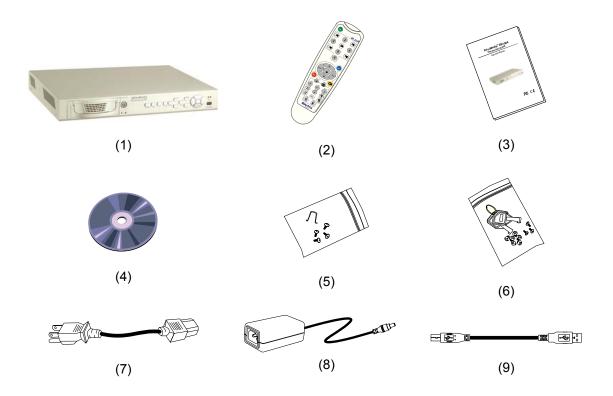
Surveillance, digital recording and playback are controlled through the front panel buttons. With the On-Screen-Display (OSD) menu, user can customize video recording setting, sensor and alarm settings, password protection, hard drive recycling, and more. Through USB connection, user can playback the video with the bundled software, segment the video to keep the wanted portion exclusive and save it in MPG/AVI format. At the same time, also capture still image and save it in BMP or JPG format or print it.

Surveillance video is recorded in high-quality MPEG4 format. Two recording modes are supported; **D1** Mode can record video from each video camera in higher resolution (720 x 480 / 720 x 576) at 60/50 fps and **CIF** Mode can record video in lower resolution (360 x 240 / 360 x 288) and up to 120/100 fps (NTSC/PAL).



Connecting cameras, sensors, alarm, audio, and display device

1.1 Package Contents



- (1) DVR unit (EB1504 MPEG4 or EB1504 MPEG4⁺ unit)
- (2) Remote Control (batteries included)
- (3) Quick Installation Guide
- (4) Software CD (User Manual included)
- \Box (5) DVR accessories (including 4 screws and 1 Ω hook)
- (6) Removable hard disk drawer accessories (with spare screws)
- (7) Power Cord

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

- (8) Power Adapter
- (9) USB Cable

1.2 Features and Specifications

- Non-PC stand-alone security digital video recorder
- 4 composite video inputs and 1 composite output
- VGA output for LCD monitor display
- Front panel buttons and OSD control
- MPEG4 video compression

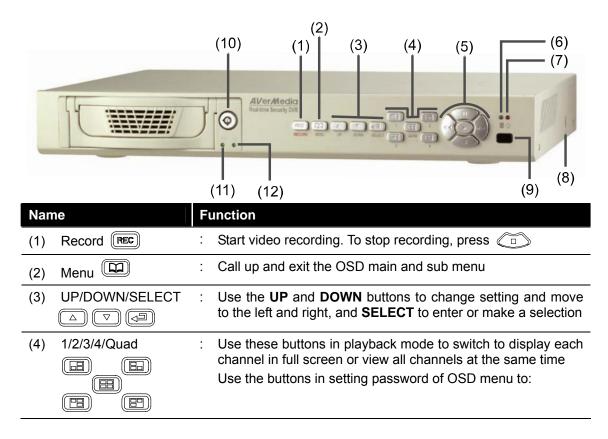
- Auto-detect NTSC or PAL video system
- Supports 2 hard drives (not included)
- Full-screen resolution:
 Display: 720 x 480 (NTSC), 720 x 576 (PAL)
 Recording: 720 x 480 (NTSC), 720 x 576 (PAL)
- Display frame rate: Total of 120/100 fps (NTSC/PAL)
- Recording frame rate:

CIF mode: Total 120/100 fps (NTSC/PAL)

D1 mode: Total 60/50fps(NTSC/PAL)

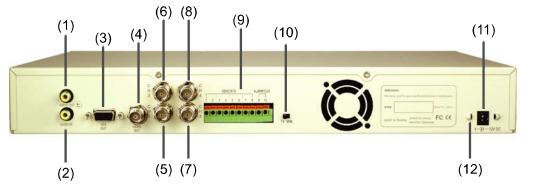
- Scheduled recording (00:00~23:00 set by hour)
- Search for recorded videos by date/time/event
- Motion detection recording (EB1504 MPEG4⁺ Only)
- Input/Output: 4 sensor inputs and 1 relay output control
- Removable hard disk bay
- One USB 2.0 Port
- Multiple language operation screens

1.3 Front & Side Panel



Nam	e	Fu	unction
(4)	1/2/3/4/Quad		 For "1" For "2" For "3" For "4" For "0" If in QUAD record mode, user would not be able to view single channel in full screen
(5)	Playback/OSD Menu Control Buttons	:	 Use the buttons in playback mode to: Display the play list and play the recorded video Wind back the video playback at the speed of 2x, 4x, 8x or 16x Fast play the video playback at the speed of 2x, 4x, 8x or 16x Temporarily freeze the video playback Stop video playback Stop video playback Wind back the video playback Move to the left and right Change the setting Make a selection
(6)	HDD LED	:	Indicate running state of the hard disk. Lights when the HDD is running
(7)	DVR Power LED-ݣ	:	Lights when the unit is on
(8)	USB 2.0 Port	:	Connect to PC for video transfer or playback
(9)	IR Sensor	:	Receive the signal from the remote control to operate the unit
(10)	Removable HDD Keylock	:	Lock/unlock the hard disk rack Make sure to TURN OFF the unit BEFORE removing the hard disk
(11)	Removable HDD	:	Indicate running state of the removable hard disk. Lights when the HDD is running
(12)	Removable HDD Power LED	:	Indicate power of the removable hard disk. Lights when the HDD power is connected

1.4 Back Panel



Nan	ne	F	unction	
(1)	Audio Out	:	Output the audio signal to a speaker	
(2)	Audio In	:	Input the audio signal from a mic or audio output device. The audio is embedded with channel 1	
(3)	VGA Out	:	Output the video signal to a CRT or LCD monitor	
(4)	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	
(5)	CH1	:	Input the video camera signal and display it on channel 1	
(6)	CH2	:	Input the video camera signal and display it on channel 2	
(7)	CH3	:	Input the video camera signal and display it on channel 3	
(8)	CH4	:	Input the video camera signal and display it on channel 4	
(9)	Sensor In & Alarm Out	:	Support up to 4 sensor device and 1 relay device (Relay: 1A @ 125V AC/30V DC)	
(10)	TV-VGA	:	Switch to select the video output. Make sure to set the video output before turning on the unit	
(11)	12V DC	:	Connect the power adapter into this port	
(12)	Ω Hook		Fix the hook after connecting the power adapter	

1.5 Setting Up the DVR Unit

1.5.1 Installing the Hard Disk

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.

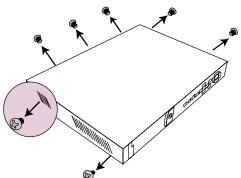


For hard disk spec, please referring to http://www.avermedia.com/nvd/hardware-recom_eb_c.asp

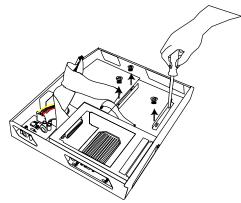
The "compatible hard disks" indicated in the above recommendation list only means that these commercially available hard disks were tested with AVerMedia products and functioned well under normal operation conditions. AVerMedia does not guarantee or provide warranties, explicitly, implied or statutory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

Follow the illustrated instructions below to install the hard disk:

1. Loosen all screws

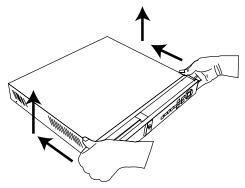


3. Loosen the hard disk rack 4 screws



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

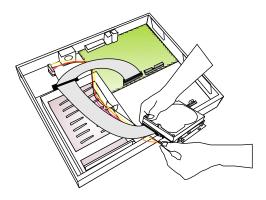
2. Push the cover backward and lift



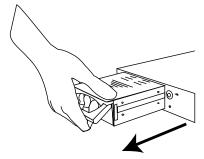
4. Secure the brackets on the hard disk (slave)



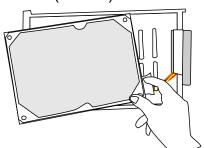
6. Secure the hard disk inside the unit then replace unit cover



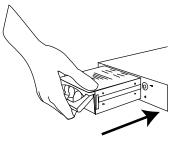
7. Unlock the removable hard disk drawer then pull it out

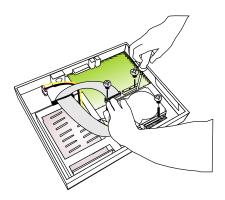


9. Connect the power connector to the 10. Carefully insert the hard disk in the hard disk (master)

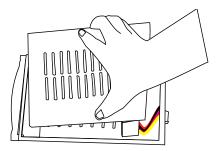


11. Slide the drawer back

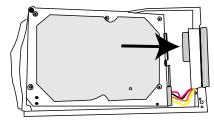




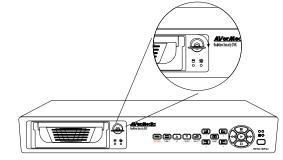
8. Remove the removable rack cover



removable rack then replace the removable rack cover



12. Lock the removable keylock



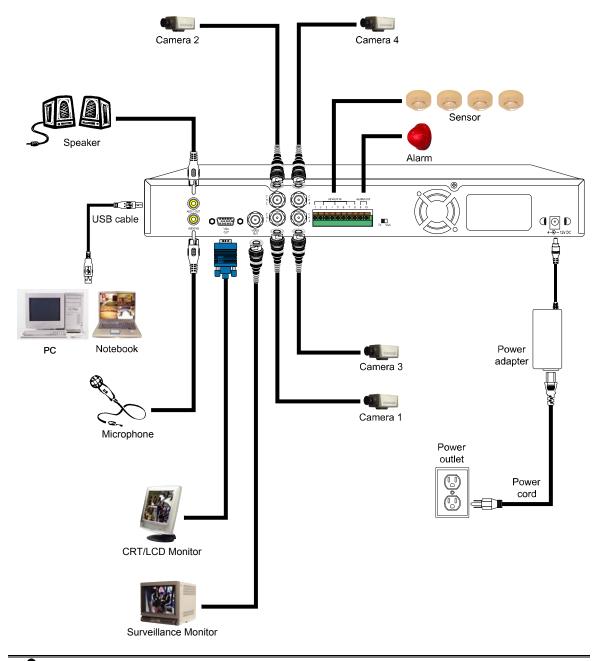
13. You may now connect all the cables. When the power is connected, the Power LED light 🖞 turns on

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

1.5.2 Connecting Devices

The back panel of the DVR unit, you can connect up to 4 video cameras, 4 sensor devices, 1 alarm device and output video to a TV or CRT/LCD monitor. Connecting the unit to a PC, through USB connection, the bundled software enables you to transfer, playback and segment the video.

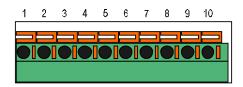
Follow the illustration below to make the connection:



Each time you change the video display output, the power must be turned **off** and **on** to reset the DVR system.

1.5.3 Connecting the Sensor/Relay device

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



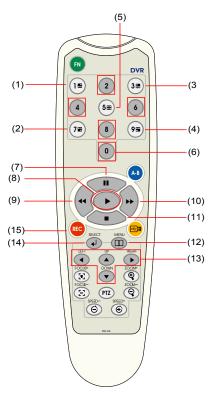
1.5.3.1 I/O Card Sensor and Relay pinhole allocation:

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

1.6 Familiarizing the Remote Control Buttons

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



Butto	on	Function
(1)		Switch to Channel 1
(1)		As a number key 1
(2)	3 🖿	Switch to Channel 2
(2)		As a number key 3
(3)	(7⊞)	Switch to Channel 3
(0)	\bigcirc	As a number key 7
(4)	91	Switch to Channel 4
(+)		As a number key 9
(5)	5=	Switch to QUAD mode
(5)		As a number key 5
	2	
	4	As a number key 2,4,6,8,and 0
(6)	6	
	8	
	0	
(7)		Pause the playing
(')		To move the select to up
(8)		To play the video

Button		Function
(9)	1	Reverse the video playback at the speed of 2x, 4x 8x or 16x
(9)		To move the select to left
(10)		Fast play the video playback at the speed of 2x, 4x 8x or 16x
(10)		To move the selection to right
(11)		Stop playing / Stop recording
(11)		To move the select to down
(12) (11)		To enter the OSD Main menu / Exit from the main menu or sub-menu display
		—
(13)		To move the selection to the left and right
(13)		To go up and down and select the items in the menu list or
		change the settings
(14)	◄	Make a selection
(14)		Enter sub-menu
(15)	REC	Start video recording

Chapter 2 Operating the EB DVR System

2.1 Using the EB DVR System for the First Time

Upon connecting the power, the unit automatically detects the status of the hard disk. The hard disk must be formatted for the first time installed on DVR system. 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.



2.1.1 Set up the System Date and Time

- Press I to call up the OSD menu and then use and or and or or not to go up and down and select SUBMENU. And then, press or to confirm the selection.

buttons to move the selection to the left and right.

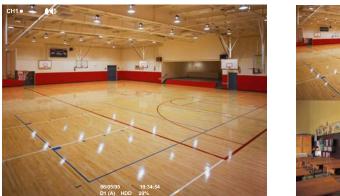
- 3. To adjust Time, follow the above step 2 and 3.
- 4. Press (III) to go back to main menu after adjustment.

2.2 Surveillance Screen

and

User can switch to display each channel in full screen or 4 channels at the same time in D1 or CIF record mode.

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



Full Screen Preview



QUAD Screen Preview

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



2.3 Playback the Video

If the unit is recording the video, you may have to stop video recording in order to do video playback. To stop video recording, press

2.3.1 To Playback Video

1. 2.	Press . Use the A and V or A and J and U and U buttons to go up and down and select TIME SEARCH or EVENT LIST. Then, press V or T to make a selection.	SEARCH METHOD TIME SEARCH EVENT LIST
ТІМ	E SEARCH (search by date and time):	
1.	In the selected HARD DISK, press (,),),), or (). Then, use the () and () or or buttons to select () and () or buttons to select (),),), or (), o	TIME SEARCH HARD DISK : MASTER START TIME : 2006 / 05 / 04 10 : 00 : 01 END TIME : 2006 / 05 / 05 13 : 08 : 13 SEARCH TIME : 2006 / 05 / 04 10 : 00 : 01

- 2. Use the and or or and and buttons and select SEARCH TIME. Then press or again to make the selection.
- 3. In the SEARCH TIME, you may now select the date and time from where you want to begin the video playback. Use the
 and
 buttons to move the selection to the left and right. Use the
 and
 or
 and
 buttons to select the date and time. Then press
 or
 again to make the selection.
- 4. To start video playback, the time in second must be set. Use the buttons to move the selection to the left most. Use the and v or and buttons and select the time in second. Then press v or .

EVENT LIST (search by condition):

1.	In the selected HARD DISK, press 🕢
	or \blacktriangleright . Then, use the \checkmark and \checkmark or
	and buttons to select
	MASTER or SLAVE. Press 🕢 or 🕟
	again to make the selection.

EVENT	LIST			
HARD	DISK	MASTER		

- 3. Listed below are the following recording conditions:

EV	ENT LIST		
HA	RD DISK : I	MASTER	
S	2006 / 05 / 03	13 : 26 : 34	13:26:50
Α	2006 / 05 / 03	13:00:01	13 : 16 : 46
Α	2006 / 05 / 03	12:00:01	13:00:01
В	2006 / 05 / 03	11:48:37	12:00:00
Α	2006 / 05 / 03	11:30:23	11 : 31 : 18
Α	2006 / 05 / 03	11 : 29 : 47	11 : 30 : 13
S	2006 / 05 / 03	11 : 28 : 55	11 : 28 : 58
В	2006 / 05 / 03	11:28:33	11:28:55
Α	2006 / 05 / 03	11 : 25 : 41	11 : 28 : 32
Α	2006 / 05 / 03	11 : 23 : 26	11:23:30
$\mathbf{\nabla}$			

A – Always Recording

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

S – Sensor Recording

It records when the sensor has activated.

M – Motion Recording

It records when any movement is detected (for EB1504 MPEG4⁺ only)

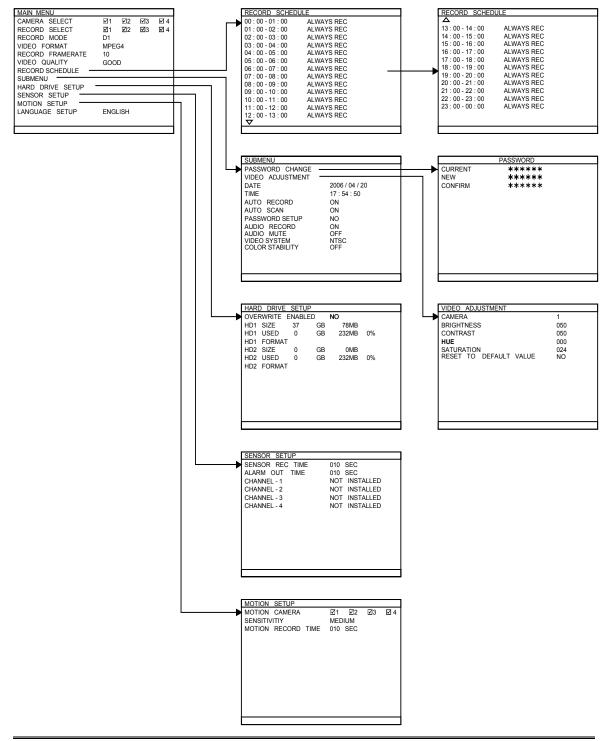
B – Button Recording

It records when the **REC** record button is pressed.

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

Chapter 3 OSD Navigation Tree

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





Motion Setup only available on EB1504 MPEG4⁺.

3.1 Menu Function

If the unit is currently recording the video, you may have to stop video recording to change the settings. To navigate in the OSD menu, press (1) to call up and exit from the main menu or sub-menu display. Then use the (1) and (1) or (1) and (1) buttons to go up and down and select the items in the menu list or change the settings. Use the (1), (1) or (1) button to enter sub-menu or make a selection. You can also use the (1) buttons to move the

selection to the left and right. The red frame turns yellow when you are making a selection.

OSD MENU	Description	
MAIN MENU CAMERA SELECT Image: Constraint of the second select RECORD SELECT Image: Constraint of the second select VIDEO FORMAT MPEG4 RECORD FRAMERATE 10 VIDEO QUALITY GOOD RECORD SCHEDULE SUBMENU	 CAMERA SELECT : Enable/disable the channel number to display the video on the surveillance screen. RECORD SELECT : Enable/disable the channel number to record video. 	
HARD DRIVE SETUP SENSOR SETUP MOTION SETUP LANGUAGE SETUP ENGLISH	The channels that are enabled in the camera select setting can only be set for video recording.	

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 single 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 single full screen or QUAD screen

VIDEO FORMAT :

The recorded video is in MPEG4 format.

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, 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, GOOD, MEDIUM, NORMAL or LOW.

Choosing **NORMAL** allows user to record more hours but the quality of the recorded video is moderate.

OSD MENU

Description

LANGUAGE SETUP :

Select from the available language

RECORD SCHE		
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	

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.
SENSOR REC	Start recording when the sensor has activated.

SUBMENU	
PASSWORD CHANGE	
VIDEO ADJUSTMENT	
DATE	2006 / 04 / 20
TIME	17:54:50
AUTO RECORD	ON
AUTO SCAN	ON
PASSWORD SETUP	NO
AUDIO RECORD	ON
AUDIO MUTE	OFF
VIDEO SYSTEM COLOR STABILITY	NTSC
COLOR STABILITY	OFF

PASSWORD CHANGE :

Set a security combination number. This is a security measure that prevents formatting of the hard disk or changing the system settings. The factory default password is 111111. User could use \square , \square , \square , \square , and \square to set each digit of password. Also, user could use number key (0 1^{m} 2 3^{m} 4 5^{m} 6 7^{m} 8 9^{m}) on the remote control to enter each digit of password.

	PASSWORD
CURRENT	*****
NEW	*****
CONFIRM	****

VIDEO ADJUSTMENT :

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

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

DATE :

Set the current date.



Please set the correct date and time when you use this DVR at the first time to make sure the time of recorded video file is correct.

OSD MENU

SUBMENU	
PASSWORD CHANGE	
VIDEO ADJUSTMENT	
DATE	2006 / 04 / 20
TIME	17:54:50
AUTO RECORD	ON
AUTO SCAN	ON
PASSWORD SETUP	NO
AUDIO RECORD	ON
AUDIO MUTE	OFF
VIDEO SYSTEM	NTSC
COLOR STABILITY	OFF

Description

TIME :

Set the current time.

AUTO RECORD:

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

AUTO SCAN:

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

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.

AUDIO RECORD :

Enable/disable audio recording. To record sound, make sure the microphone is connected to the unit.

AUDIO MUTE :

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



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

VIDEO SYSTEM:

User doesn't need to select video system. The DVR system will auto detect the video system when power on and display.

COLOR STABILITY:

Enable/disable the color stability which display on Surveillance Screen.

OVERWRITE ENABLED:

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

HD1 FORMAT / HD2 FORMAT :

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

To format hard disk:

Use the and or or and and use or and buttons to go up and down and select HD1 FORMAT. Then press or .
 In the CHECK PASSWORD screen, press of .

and (

or

. Then use the 🔵 🔺

HARI	D DRIVE	E SETU	P		
OVE	RWRITE	ENABL	ED YE	S	
HD1	SIZE	37	GB	78MB	
HD1	USED	0	GB	232MB	0%
HD1	FORMA	Т			
HD2	SIZE	0	GB	0MB	
HD2	USED	0	GB	232MB	0%
HD2	FORMA	Т			

- * HD1//HD2 SIZE shows the total capacity of the hard disk.
- * HD1/HD2 USED shows the amount of space that has been used.

or

OSD MENU D	escription and buttons to select the security combination number. Press or button again to make the selection. Repeat till you key in the last number. The factory default password is 111111. Also, user could use number key (0 111 2 311 4 511 6 711 8 911) on the remote control to enter each digit of password. To move the selection to the left and
3.	right, use (and b) buttons.
4. 5.	PASSWORD CORRECT Use the and or or an and buttons and select the hard disk you want to format. It is done when the "HDD FORMAT COMPLETED" appears. It is done when the "HDD FORMAT COMPLETED" appears. It is done when the "HDD FORMAT COMPLETED" appears.

OSD MENU

010 SEC
010 SEC
NOT INSTALLED
NOT INSTALLED
NOT INSTALLED
NOT INSTALLED

Description

SENSOR REC TIME :

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

ALARM OUT TIME :

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

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 initiate when there is a change in the sensor state.
NORMAL CLOSE	Indicates that the initial state of the sensor is normal close. Video recording initiate when there is a change in the sensor state.

|--|

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

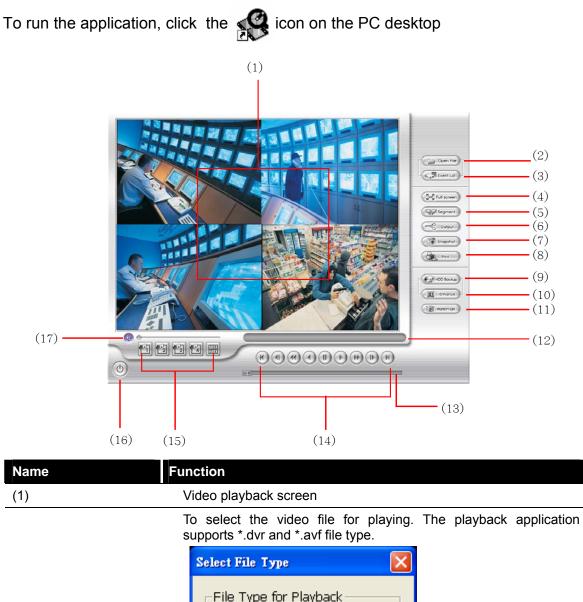


2. Select the language you prefer



- 3. Click **OK** to install the application
- 4. Click **Exit** to close the installation main screen.
- 5. You may now connect the DVR unit to PC by using USB cable.
- 6. Also, user can remove the hard disk and place in external USB enclosure, and then connect to PC for playback, too.

4.3 **Running the USB Playback Console**



	File Type for Playback	
	C DVR Recorded File (HD)	
	C Backup File (.dvr)	
	C Backup File (,avf)	
(2) Open File	OK Cancel	
	 DVR Recorded File (HD): To playba the hard disk which was recording 	

- video from R system. (Also see 4.3.2)
- Backup File(.dvr): The file is backup and save in *.dvr file _ format. (Also see 4.3.3)

Name	Function			
	Select the event you want to playback. The event list only available when user select to playback in DVR Recorded File(HD) .			
(3) Event List	No. Record Begin Time End Time Cold Time 1 8 2006/ht/18 11:09:20 2006/ht/18 11:09:20 2006/ht/18 11:09:20 3 A 2006/ht/18 11:09:20 2006/ht/18 11:09:20 2006/ht/18 11:09:20 3 A 2006/ht/18 11:09:20 2006/ht/18 11:09:20 2006/ht/18 11:09:20 5 A 2006/ht/18 11:09:20 2006/ht/18 11:10:20 2006/ht/18 11:10:20 6 B 2006/ht/18 11:11:20 2006/ht/18 11:12:20 2006/ht/18 11:12:20 7 A 2006/ht/18 11:12:20 2006/ht/18 11:12:20 2006/ht/18 11:12:20 9 A 2006/ht/18 11:20:20 2006/ht/18 11:20:20 2006/ht/18 11:20:20 11 A 2006/ht/18 11:20:20 2006/ht/18 11:20:20 2006/ht/18 11:20:20 12 A 2006/ht/18 11:20:20 2006/ht/18 11:20:20 2006/ht/18 11:20:20 13 A 2006/ht/18 11:20:20 2006/ht/18 11:20:20 2006/ht/18 11:20:20 14 A 2006/ht/18 11:20:20 2006/ht/18 11:20:20 2006/ht/18 11:20:20 15 A			
(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 ESC on the keyboard. When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.			
(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 <u>4.3.1</u>).			
(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 Chapter 7)			
(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.			
	Begin: Move at the beginning of the recorded video file.Previous: Go back to the previous frame by frame.Slower: Play the recorded video file at the speed of 1/2x, 1/4x or 1/8x.			
(14) Playback Controller	Rewind: Wind back the recorded video file. Pause: Briefly stop playing the recorded video file.			
Controller	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 by frame.			
	End: Go to the end of the recorded video file.			
(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	Exit/ Minimize the application or chose Cancel to go back to the application			

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**.

sk Sele	ect	
HDD	Size	Name
0	74 GBytes	IDE\DiskST380011A
1	149 GBytes	IDE\DiskWDC_WD1600JB-98G
	ОК	Cancel

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

5.	Record	Begin Time	End Time	1
1	В	2006/04/18 13:09:20	2006/04/18 13:50:39	
2	A	2006/04/10 14:07:53	2006/04/18 14:08:09	-
3	A	2006/04/18 14:08:42	2006/04/18 14:08:51	
4	A	2006/04/18 14:08:56	2006/04/18 14:09:01	
5	A	2006/04/18 14:11:30	2006/04/18 14:11:30	
6	В	2006/04/18 14:13:09	2006/04/18 14:14:13	
7	A	2006/04/18 14:15:27	2006/04/18 14:16:08	
8	A	2006/04/18 14:26:02	2006/04/18 14:26:09	
9	A	2006/04/18 14:26:20	2006/04/18 14:26:42	
10	A	2006/04/10 14:26:53	2006/04/18 14:27:16	
11	A	2006/04/18 14:27:21	2006/04/18 14:27:21	
12	A	2006/04/18 14:27:26	2006/04/18 14:28:46	
13	A	2006/04/18 14:28:56	2006/04/18 14:29:06	
14	Α	2006/04/18 14:29:37	2006/04/18 14:29:53	
15	A	2006/04/18 14:30:01	2006/04/18 14:30:20	
16	A	2006/04/18 14:30:26	2006/04/18 14:33:07	
17	В	2006/04/18 14:33:35	2006/04/18 14:33:39	
10	В	2006/04/18 14:34:16	2006/04/18 14:35:25	
19	s	2006/04/18 14:36:01	2006/04/18 14:36:24	
20	S	2006/04/18 14:37:09	2006/04/18 14:38:04	
21	s	2006/04/18 14:38:06	2006/04/18 14:38:06	
22	S	2006/04/18 14:38:07	2006/04/18 14:38:07	

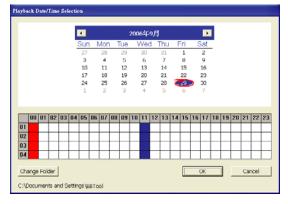
4.3.3 Playback Backup File(*.dvr)

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 is located.

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

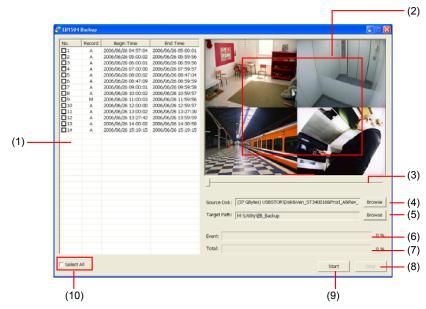


Chapter 5 Backup Recorded Video File

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



Name	Function
	All recorded video events list
	No.: the list order number
(1)	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 video channel from 4 selected channels.
(3) Progress bar	Show the progress of the event being played. User may move the bar to seek at any location of the track

Nan	re	unction				
		To select the hard disk drive				
		Select Disk				
		HDD Size Name				
(4) Sou	Source Disk	0 298 GBytes USBSTOR\Disk&Ven_WDC_W 1 37 GBytes USBSTOR\Disk&Ven_ST34001				
		OK Cancel				
(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 connect the DVR system to PC by using USB cable 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	2	×
	HDD	Size	Name	
	0	298 GBytes	USBSTOR\Disk&Ven_WDC_W	
	1	37 GBytes	USBSTOR\Disk&Ven_ST34001	
	1			
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.

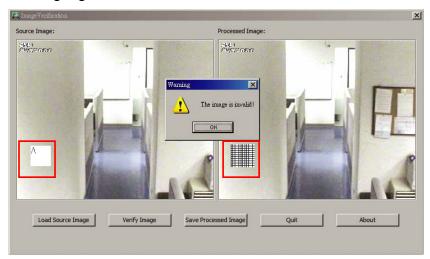
Chapter 6 ImageVerification

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 main interface, click **Load Source Image** and locate the image source.
- 3. Click Verify Image to begin the process.

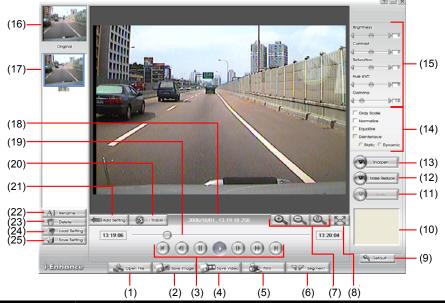
Check the result in the **Processed Image** screen. If the picture is unmodified, the image in the **Source Image** and **Processed Image** screen would be exactly the same. If the picture is being modified, a warning dialog box would prompt and the modified area is highlighted.



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 desire 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 the iEnhance application, click **iEnhnace** button on USB Playback Application 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	Begin: Move at the beginning of the video file.
Buttons	Previous: Go back to the previous frame.
	Rewind: Wind back the video file.
	Pause: temporary stop playing the video file.
	Play: Play the video file.
	Faster: Speed up to play the video file
	Next: Go to the next frame.
	End: Go to the end of the video file.
(4) Save Video	Save the edited or segmented video in *.avi format.
(5) Print	Print the screen shot.
(6) Segment	Mark the beginning and the end of the desire 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.

Name	Function
(10) History Box	List all the actions.
(11) Undo	Delete the last action.
(12) Noise Reduce	Adjust the softness and repair the damaged colour.
(13) Sharpness	Improve the overall image by enhancing edges. This gives the image more depth.
(14) Effects	Gray Scale: convert the image into black and white (monochrome). Normalize: adjust the brightness intensity. Equalize: automatically adjust the images that are too dark. De-interlace: smooth out the overlying frames. Static: de-interlace for motionless scene. 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. The iStable windows will show up.
- Select the **smoothness** level 1(Low), 2, 3, 4, and 5(High). The default value is
 3.
- 5. Click **Play** button, and then iStable function will start to initial the recorded video.
- 6. When the initialize is done, user will see the original and stabilized recorded video both play in original and stabilized windows.

	Smoothness ((oufwith) Dentenace C state C Dynamic
1-Stable	

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

http://www.avermedia.com http://www.averdigi.com Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com