AVerMedia[®] AVerDiGi EB1304 NET

Operation Manual





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FCC NOTICE (Class B)



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

Federal Communications Commission Statement

NOTE- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference 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 B digital device, pursuant to Part 15 of the FCC Rules, this device must be installed in computer equipment certified to comply with the Class B 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 B)



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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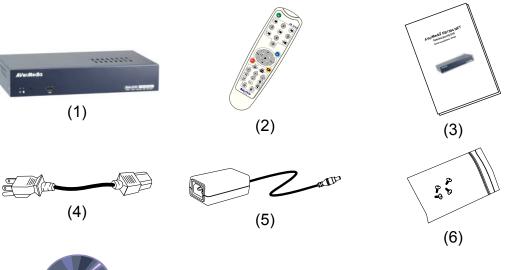
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Chapter 1 Introduction

1.1 Package Content





- (1) AVerDiGi EB1304 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) DVR accessories (including 4 screws)
- (7) Software CD (User Manual included)

1.2 Features and Specifications

- Non-PC stand-alone network digital 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
- Support Web viewer on Internet Explorer

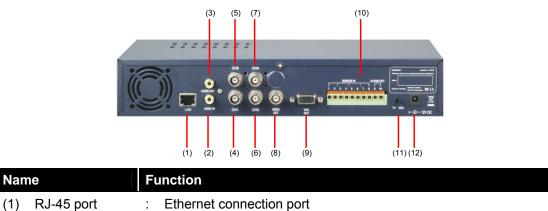
- Support Central Management System(CMS)
- Support remote console
- Support USB backup to pen drive and external hard disk
- Support network, playback, and recording simultaneously
- Supports 1 hard disk drive (not included)
- Full-screen resolution: Display: 720 x 480 (NTSC) / 720 x 576 (PAL) Recording: 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
- Input/Output: 4 sensor inputs and 1 relay output control
- Multiple language operation screens

1.3 Front Panel



Name	Function		
(1) DVR Power LED	: Light when the unit is power on		
(2) HDD LED	: Indicate the hard disk running state. Light when the HDD is running (Read/Write)		
(3) IR Sensor	: Receive signal from the remote control to operate the unit		
(4) USB 2.0 Port	Connect to pen drive / external hard disk for backup		

1.4 Back Panel



Nan	ne	F	unction	
(2) Audio In			Input the audio signal from audio output device which it has a power supply by itself. 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 audio out device which it has a power supply by itself	
			The audio output device needs to be powered by external power.	
(4)	CH1	:	Input the video camera signal and display it on channel 1	
(5)	CH2	:	Input the video camera signal and display it on channel 2	
(6)	CH3	:	Input the video camera signal and display it on channel 3	
(7)	CH4	:	Input the video camera signal and display it on channel 4	
(8)	Video Out	:	Output the video signal to other vedio output device through BNC port	
			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	
(9)	VGA OUT	:	Output the video signal to a CRT or LCD monitor	
(10)	Sensor In & Alarm Out	:	Support up to 4 sensor device and 1 relay device (Relay: 1A @ 125V AC/30V DC)	
(11)	TV-VGA Switch	:	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 the Hard Disk

The DVR unit allows user to install one hard disk. Before installing the hard disk, make sure to set the hard disk master jumper setting. Adjust the jumper setting according to the instructions on the hard disk label.

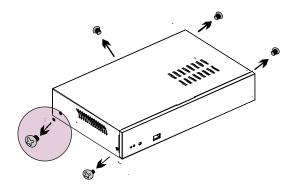


For hard disk spec, please referring to http://www.avermedia.com/nvd/hardware-recom_eb_c.asp

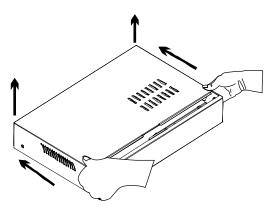
The "compatible hard disks" indicated in the above recommendation list only means that these commercially available hard disks were tested with AVerMedia products and functioned well under normal operation conditions. AVerMedia does not guarantee or provide warranties, explicitly, implied or statutory 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:

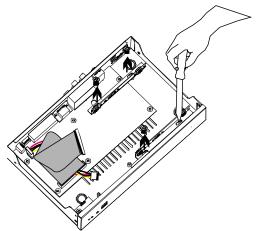
1. Loosen all screws

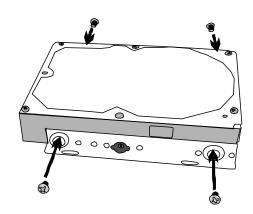


2. Push the cover backward and lift

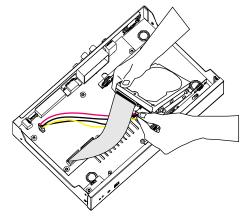


- 3. Loosen the hard disk rack 4 screws 4. Secure the brackets on the hard disk

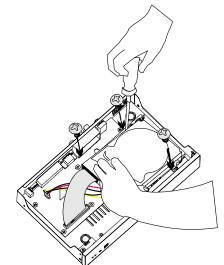




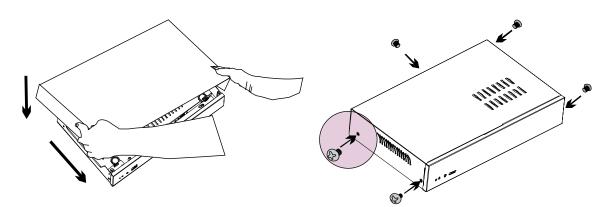
5. Connect the end of the IDE cable and the power connector to the hard disk



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



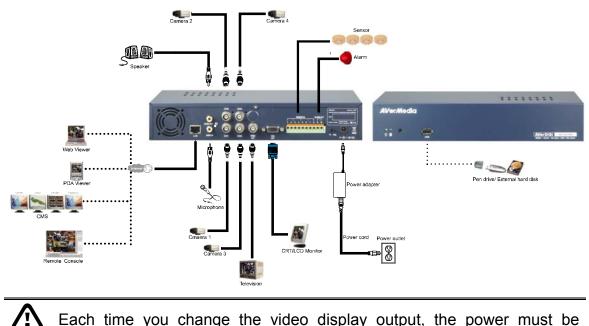
- 7. Push the cover forward
- 8. Secure the cover



9. You may now connect all the cables. When the power is connected, the Power LED light ⁻⁽⁾/₂ turns on

1.5.2 Connecting Devices

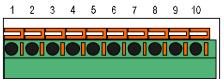
The back panel of the DVR unit, user can connect up to 4 video cameras, 4 sensor devices, 1 alarm device and output video to a TV or CRT/LCD monitor. Connecting the unit to a pen drive or external hard disk through USB connection for backup, then use the bundled software enables user to transfer, playback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

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).

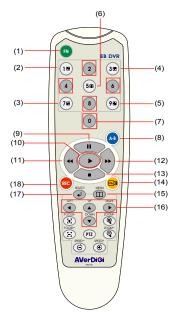
Pin #	Definition
1	Sensor 1 Ground signal
2	Sensor 1 signal
3	Sensor 2 Ground signal
4	Sensor 2 signal
5	Sensor 3 Ground signal
6	Sensor 3 signal
7	Sensor 4 Ground signal
8	Sensor 4 signal
9	Relay signal

10	Relay signal	
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Chapter 2 Operating the EB1304 NET

2.1 Familiarizing the Remote Control Buttons

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



Button		Function
(1)	FN	A functional key for multiple DVR system remote control
(2)	(2)	Switch to Channel 1
(2)		As a number key for entering password
(3)	38	Switch to Channel 2
(0)		As a number key for entering password
(4)	(7 H)	Switch to Channel 3
(1)		As a number key for entering password
(5)	91	Switch to Channel 4
(3)		As a number key for entering password
(6)	5=	Switch to CIF mode
(0)		As a number key for entering password
	2	
	4	
(7)	6	As a number key for entering password
	8	
	0	
(8)	А-В	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

Butto	on	Function			
(11)	••	Decrease the video playback at the speed of 2x, 4x 8x or 16x			
(12)	44	Fast play the video playback at the speed of 2x, 4x 8x or 16x			
(13)		Stop playing / Stop recording			
(14)		USB backup(see 2.1.2)			
(15)		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			
(16)		To enter the OSD Main menu / Exit from the main menu or sub-menu display			
(17)		Make a selection			
(17)		Enter sub-menu			
(18)	REC	Start video recording			
		·			
0	The buttons w	which list below are not functional for the EB1304 NET.			

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.
- During the playback, press (A-B) to set the A point of video segment. And then, press (A-B) again to set the B point of video segment. On the surveillance screen will display "A-B" and repeat playing the AB point video segment which user has set. To cancel AB repeat, press (A-B) again.

2.1.2 Using USB Backup Button

User can press 🐵 button to backup the AB Repeat video file.

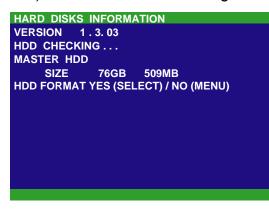
- 1. Set the AB Repeat file (see 2.1.1).
- 2. Plug in pen drive or external hard disk to DVR system.
- During the AB Repeat playback, press button.
- And then, press (YES) to start backup file or press (NO) to exit backup mode.



The external hard disk needs to be powered by external power.

2.2 Using the EB1304 NET 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 EB1304 NET. 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 (and to go up and down and select Submenu. And then, press (to confirm the selection.
- In Submenu, select the Date and press again to make a selection. And then, use and o to adjust the date and use and 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.

2.3 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 Φ (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.





D1 mode Screen Preview

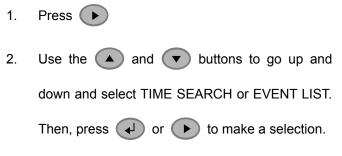
CIF model Preview

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:



2.4 Playback the Video

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



TIME SEARCH (search by date and time):

1.	Use the 🔺 and 💌 buttons and select	TIME SEARCH				
	SEARCH TIME. Then press 🕢 or 🅟	START TIME : 2006/05/04 10:00:01 END TIME : 2006/05/05 13:08:13				
	again to make the selection.	SEARCH TIME: 2006/05/04 10:00:01				
2.	In the SEARCH TIME, user may now select the					
	date and time from where you want to begin the					
	video playback.					
	Use the <a> and <>> buttons to move the selection to the left and right. Use the 					
	and $igcup$ buttons to select the date and time. Then press $igcup$ or $igcup$ again to make					
	the selection.					
3.	To start video playback, the time in second must be	set. Use the b buttons to move the				
	selection to the right most. Use the \checkmark and \checkmark	buttons and select the time in second.				
	Then press 🕢 or 🌔.					

EVENT LIST (search by event):

se the 🔺 and 💌 buttons to select from
e list. Press 🕡 or 🕩 again to make the
election. User una and to go next

Listed below are the following recording

EVI	ENT LIST			
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	
В	2006 / 05 / 03	11 : 28 : 55	11:28:58	
S	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	
$\mathbf{\nabla}$				
				Γ

conditions:

A – Always Recording

page or back to previous page.

It records non-stop and automatically continue recording when interrupted

S – Sensor Recording

It records when the sensor has triggered

M – Motion Recording

It records when any movement has detected

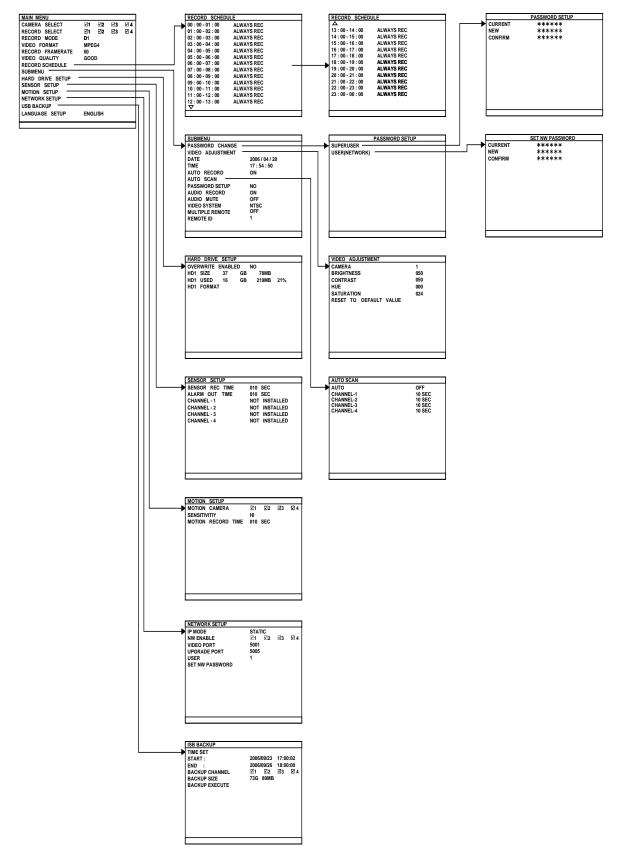
B – Button Recording

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

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

Chapter 3 OSD Navigation Tree

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



3.1 Menu Function

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.

OSD MENU				
MAIN MENU				
CAMERA SELECT	⊡1	⊠2	⊠3	☑ 4
RECORD SELECT	⊡1	⊠2	⊠3	☑ 4
RECORD MODE	D1			
VIDEO FORMAT	MPE	G4		
RECORD FRAMERATE	60			
VIDEO QUALITY	GOO	D		
RECORD SCHEDULE				
SUBMENU				
HARD DRIVE SETUP				
SENSOR SETUP				
MOTION SETUP				
NETWORK SETUP				
USB BACKUP				
LANGUAGE SETUP	ENG	LISH		

Description

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



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

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 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 guality of the recorded video is moderate.

LANGUAGE SETUP :

Select from the available languages

RECORD SCHEE	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	

Description

RECORD SCHEDULE:

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

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
MUTIPLE REMOTE	OFF
REMOTE ID	1

PASSWORD CHANGE :

Set a security combination number. There are two type of user password – SUPERUSER and USER.



Use the number button on the remote control to enter the password. Or use A and V button to the select the security combination number. Press

or **b** button to confirm.

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.



Description

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.

SET NW PASSWO	RD	
CURRENT	*****	
NEW	*****	
CONFIRM	*****	

2006 / 04 / 20
17:54:50
ON
ON
NO
ON
OFF
NTSC
OFF
1

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

TIME :

Set the current time

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

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.

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
MUTIPLE REMOTE	OFF
REMOTE ID	1

Description

AUTO SCAN		
AUTO SCAN	OFF	
CHANNEL - 1	10 SEC	
CHANNEL - 2	10 SEC	
CHANNEL - 3	10 SEC	
CHANNEL - 4	10 SEC	

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 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.

VIDEO SYSTEM:

DVR system will auto detect the video system and display

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.

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.

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
MUTIPLE REMOTE	OFF
REMOTE ID	

HARD DRIVE SETUP	
OVERWRITE ENABLED YES	
HDD SIZE 37 GB 78MB	
HDD USED 0 GB 232MB 0%	
HDD FORMAT	

- * HDD SIZE shows the total capacity of the hard disk.
- * HDD 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:

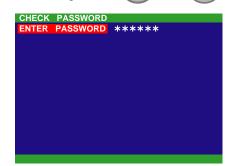
1. Use the () and () buttons to go up and

down and select HDD FORMAT. Then press

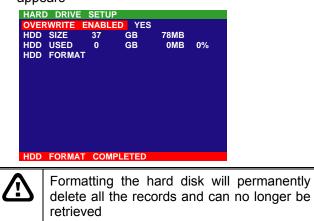


2. In the CHECK PASSWORD screen, press

or
Or Description of 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 Description of the selection. To move the selection to the left and right, use A and Description buttons



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



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

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

MOTION SETUP MOTION CAMERA 1 2 23 24 SENSITIVITIY L MOTION RECORD TIME 010 SEC	 MOTION CAMERA : Enable/disable the channel number to detect motion. SENSITIVITY : Set the sensitivity level. The sensitivity is from H (High), 9~ 2 and L (Low). MOTION RECORD TIME : Set the amount of time (in second) to record when motion is detected.
NETWORK SETUP IP MODE STATIC NW ENABLE I 1 2 3 4 VIDEO PORT 80 UPGARDE PORT 5005	NETWORK SETUP: Setup the network parameters for the internet or intranet remote monitor or playback. IP MODE: The system provides 3 types of IP setup mode – Static, DHCP, and PPPOE. Use A and V buttons to go up and down and select IP MODE, and then press A. Use A and V buttons to change the selections and press
	 or b to make a selection. STATIC: Assigns a constant IP address for the DVR system. Use and v buttons to go up and down and select items, and then press v or b to make selection. Use and v and v or or

NETWORK SETUP IP MODE NW ENABLE VIDEO PORT UPGARDE PORT

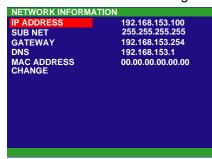
STATIC ☑1 ☑2 ☑3 80 5005

☑ 4

Description

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.



DHCP: Assign the IP address by local DHCP server to DVR system. Use and buttons to go up and down and select DHCP, and then press or to make selection.



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

The DVR system will try to get an IP address from the DHCP server. A message window will show up as below:



OSD MENU Description When DVR system gets an IP address from DHCP NETWORK SETUP STATIC server, the information will display as below: NW ENABLE VIDEO PORT UPGARDE PORT ⊡1 80 ⊠2 ⊠3 ☑ 4 NETWORK INFORMATION 192.168.153.100 255.255.255.255 ADDRESS 5005 SUB NET GATEWAY DNS MAC ADDRESS 192.168.153.254 192.168.153.1 00.00.00.00.00.00

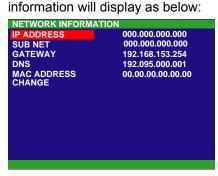
PPPOE: Point-to-Point Protocol over Ethernet is a network protocol for encapsulating PPP frames in Ethernet frames. It is used mainly with ADSL services. If your network is using ADSL service connecting to internet, and then, select PPPOE

```
mode. Use ( ) and ( ) buttons to go up and down and select PPPOE, and then press ( ) or
```

b to make selection. A message window will show up as below:



When DVR system get an IP address, the



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.

0	1 is Channel 1 3 is Channel 3	2 is Channel 2 4 is Channel 4	
Use A and v buttons to go up and down and select NW ENABLE (network enable), and then			
press) or 🗨 and 🕩	to move to the selection.	
Use 📿	and 💌 button	s to change the selections	

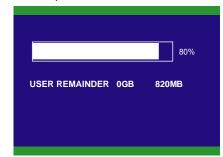
OSD MENU		Description
NETWORK SETUP	STATIC	values and press 🕢 or 🅟 to confirm.
NW ENABLE VIDEO PORT	⊠1 ⊠2 ⊠3 ⊠ 4 80	VIDEO PORT:
UPGARDE PORT	5005	A port for the remote connection. Any port can b assigned as a video port, except the ports already use by the network services. The default video port is 80.
		Use 🔺 and 💌 buttons to go up and down an
		select VIDEO PORT, and then press 🕢 or 🗨 ar
		 ▶ to move to the selection. Use ▲ and ▼ buttons to change the selections values and pres ✓ or ▶ 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. For Upgrading DV firmware, please contact your local dealer.
		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 ar
		select UPGRADE PORT, and then press 📣 or 🤇
		and 🕟 to move to the selection. Use 🔺 and 💌
		buttons to change the selections values and pres
		or b to confirm.
USB BAKCUP TIME SET		USB BACKUP:
START TIME : 2006 END TIME : 2006		Using USB device (ex. Pen drive or External Hard dis to backup partial recorded video and playback on PC.
BACKUP CHANNEL	☑1 ☑2 ☑3 ☑ 4	Use 🔺 and 💌 buttons to go up and down ar
BACKUP SIZE 73GB 89MB BACKUP EXECUTE	select USB BACKUP, and then press I or	
		Use 🗨 and 🅟 to move left and right. And, us
		and value and 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
		 The DVR system will display the system hard dis space and backup file size.

USB BAKCUP TIME SET

START TIME :	2006 / 05 / 04	10:00:01
END TIME :	2006 / 05 / 05	13:08:13
BACKUP CHANN BACKUP SIZE BACKUP EXECU	73GB	⊠3 ⊠ 4 89MB

Description

And then, select **BACKUP EXECUTE** to start 4. backup video to the USB device.



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



6. 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.

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

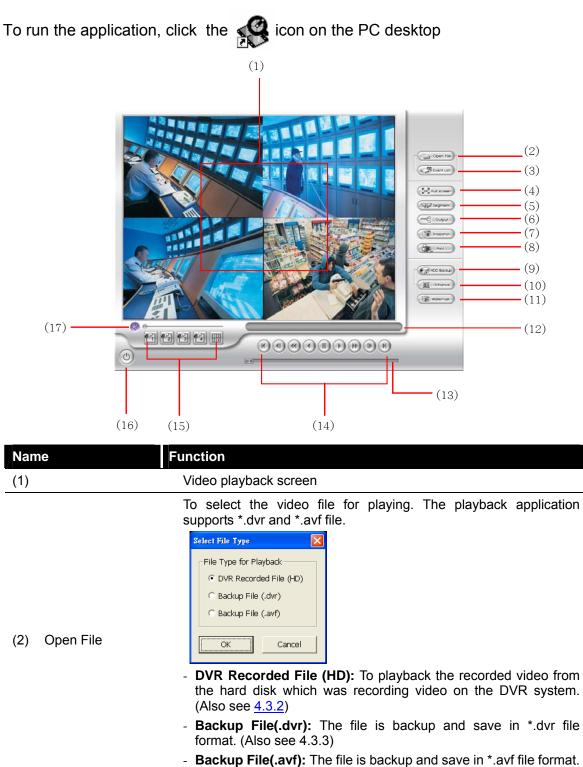


2. Select the language you prefer



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

4.3 Running the USB Playback Console



The recorded video backup to pen drive is in *.avf.

Nam	e	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 Image: Control of the control of t	
(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)	Video Enhancer	To call out i-Enhance 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.	
(14)	Playback Controller	 Begin: Move at the beginning of the recorded video file. Previous: Go back to the previous frame by frame. Slower: Play the recorded video file at the speed of 1/2X, 1/4X, or 1/8X. Rewind: Wind back the recorded video file. Pause: Briefly stop playing the recorded video file. Play: Play the recorded video file. Faster: Play the recorded video file at the speed of 2x, 4x, or 8x. Next: Go to the next frame 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.



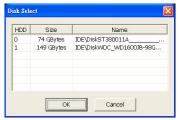
2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation, click **Segment** button again.



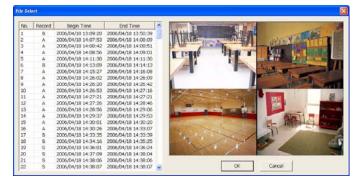
- 3. Click **Output** button to save the wanted portion.
- 4. In the **Save As** dialog box, locate on where user wants to save the file, type the filename, and select the video format.

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**.



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



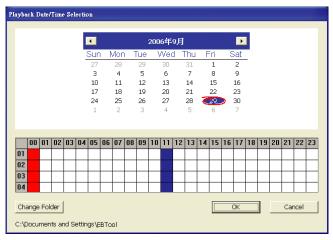
4.3.3 Playback Backup File(*.dvr)

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**.

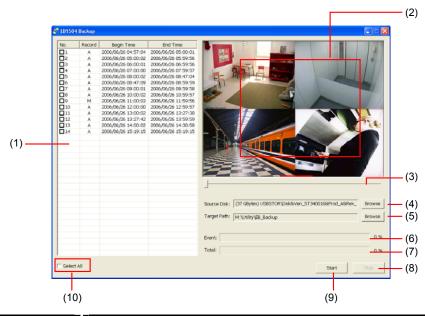


Chapter 5 Backup Recorded Video File

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 events list	No.: the list order number Record: the record type(see also <u>Chapter 2.3.1</u>) 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	Select the hard disk drive	

Name		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:

Select Disk 🛛 🔀				
				-
	HDD	Size	Name	
	0	298 GBytes	USBSTOR\Disk&Ven_WDC_W	
	1	37 GBytes	USBSTOR\Disk&Ven_ST34001	
		OK	Cancel	

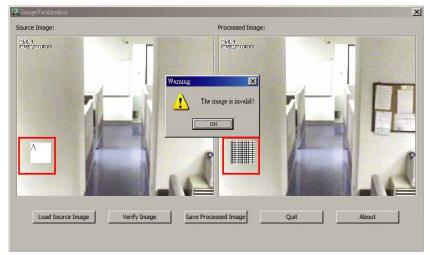
- 5. Select the hard disk drive from **Select Disk** windows. All available hard disk will list on the **Select Disk** windows with size and name
- 6. Select the hard disk drive and click **OK**
- 7. And then, all the recorded video files will list out.
- 8. Select the event which user wants to backup. 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 <u>4.3.3</u>.

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

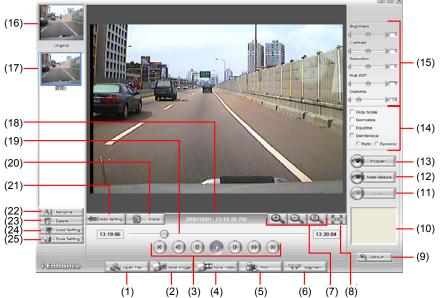
- 1. To run the ImageVerification application, click the **Watermark** button on USB Playback Application main interface.
- 2. In the ImageVerification screen, click **Load Source Image** and locate the image source.
- 3. Click Verify Image to begin the process.
- 4. Check the result in the Processed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



Chapter 7 i-Enhance

The bundled i-Enhance 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 i-Enhance application, click **i-Enhance** button on USB Playback Console interface.



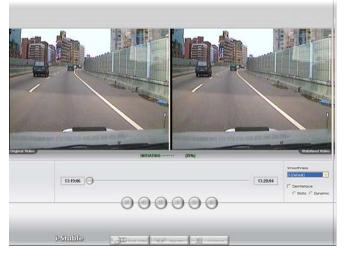
Name	Function		
(1) Open File	Access *.dvr video file.		
(2) Save Image	Capture and save the screen shot in *.bmp format.		
(3) Playback Control	Begin: Move at the beginning of the video file.		
Buttons	Previous: Go back to the previous frame.		
	Rewind: Wind back the video file.		
	Pause: Temporary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

Name	Function	
(11) Undo	Delete the last action.	
(12) Noise Reduce	Adjust the softness and repair the damaged colours.	
(13) Sharpness	Improve the overall image by enhancing edges. This gives the image more depth.	
(14) Effects	Gray Scale: convert the image into black and white (monochrome). Normalize: adjust the brightness intensity. Equalize: automatically adjust the images that are too dark. De-interlace: smooth out the overlying frames. Static: de-interlace for motionless scene. Dynamic: de-interlace for moving scene.	
(15) Picture Adjustment	Adjust the Brightness, Contrast, Saturation, Hue and Gamma.	
(16) Original Screen		
(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) i-Stable	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 i-Stable

The i-Stable function can reduce the jolt in the recorded video.

- 1. Click **Open File** button and select the recorded video.
- 2. And then, click **i-Stable** button.
- 3. i-Stable windows will show up.
- Select the smoothness level 1(Low), 2, 3, 4, and 5(High). The default value is 3.
- Click Play button, and then i-Stable 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.



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 EB 1304 NET both are connected to the internet and the Network feature is enabled.

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

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



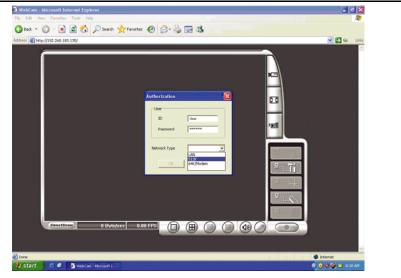
For Windows XP, click Install when the Internet Explorer - Security Warning dialog box appears.



After installing the WebCamX.cab and when connecting to the DVR system, you are required to enter User ID (Superuser or User) and password (default password is 111111) and select the type of network. Superuser has the authority to remote setup the DVR system configuration on Web Viewer.

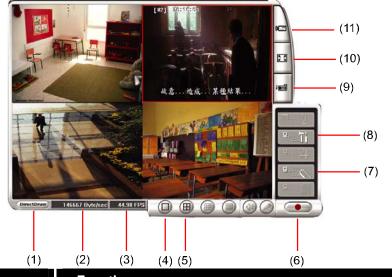


Changing the Superuser and User default password is strongly recommended.



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.



Name	Function		
(1) DirectDraw	Enhance the video quality.		
	ic cards can support this function. If you can not see the screen display screen is messed, please check with VGA card vendor.		
(2) Received file size	Indicate the size of the data being sent per second.		
(3) Camera frames	Indicate the number of frames per second.		
(4) One screen view	To view single camera view on screen. User can right click on the screen to switch to different camera view.		
(5) Split screen view	To view 4 camera on screen simultaneously.		
(6) Record	Start to record the video of the selected camera in AVI format. Directly click screen to select the channel that user wants to record and press Record button.		
(7) Remote Console	Initiate Remote Console. It allows you to control DVR server (see also <u>Chapter 8.2</u>).		
(8) Remote setup	Change the DVR server settings (see also <u>Chapter 8.1.1</u>).		
	Camera Recording Alarm Network User		
•			



Only Superuser has the authority to remote setup DVR system.

(9) Snapshot	Capture and save the screen shot in *.bmp format.
(10) Full screen	Use the entire area of the screen to only display the video. To return, Right click the mouse or press ESC on the keyboard.

Name	Function		
(11) Select cameras to view	Select to the view camera from different server. In Select Camera dialog box, Display column, click to enable/disable viewing the camera.		
	Click Add Server and select the server type between DVR and IP Cam to add.		
	Click Delete Server to delete the selected item.		
	Click Import to load the previous saved list.		
	Click Export to save the list.		
	Click Apply All to change all the camera video quality based on the selected setting.		
	Click OK to exit.		
	Select Camera Export Add Server Delete Sorver Incont Export No. IP Address Camera Name Deleter Video Cuality 01 122 00.130 Camera Name Video Cuality Provideo Cuality <t< td=""></t<>		

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 only.



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

8.1.1.1 Camera Setup

•	lamera Setup				×	
(1)	Camera Select	□ 1	2	Гз	4	
(2)	🗌 Auto Scan					
(3)	Video Adjustment					
	Camera	1	•			
	Brightness		— <u>]</u> —		128	
	Contrast		— <u>]</u> —		128	
	Hue		— <u>]</u> —		128	
	Satruration				128	
			Default 1	/alue		(4)
			OK	Ca	ancel	

(1) Camera Select:

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

(2) Auto Scan

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

(3) Video Adjustment

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

(4) Default Value

Set the video value back to default

8.1.1.2 Record Setup

	Record Setup		X
	Record Setup		
(1)	Record Select	▼ 1 ▼ 2 ▼ 3 ▼ 4	
(2)	Record Mode	C CIF @ D1	
(3)	Record Frame Rate	04 💌	
(4)	Video Quality	Best	
(5)	🗖 Auto Record		
(6)	Audio Record		
(7)	Disk Overwrite Enabl	e	
(8)	Motion Detection		
	Motion Camera	□ 1 □ 2 □ 3 □ 4	
	Motion Record Time	10 Sec	
	Sensitivity	Low	
		(OK) Cancel	

(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) Record Mode

Select D1/CIF recording mode. Under D1 mode, the video recording is in full screen resolution. 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 a lower resolution, but each video is recorded in 30fps/25fps (NTSC/PAL).

(3) 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

(4) Video Quality

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

(5) 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 under schedule setting.

(6) Audio Record

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

(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.

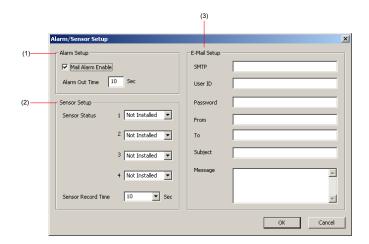
- Motion Record Time

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

- Sensitivity

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

8.1.1.3 Alarm/Sensor Setup



(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

- User ID & Password

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

- From

Enter the sender e-mail address

- **To**

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

- Subject

Enter the message title

- Message

Type the message

8.1.1.4 Network Setup

	Network Setup				×	
(1)	— IP Mode 🤇	Static IP		Server Port	80	(2)
	C Static IP					
	IP	192 , 168 , 153 , 169	User ID			
	Mask	255 . 255 . 255 . 0	Password			
	Gateway	192 . 168 . 153 . 254	DDNS			(3)
	DNS	168 . 95 . 1 . 1	Auth Key			
				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 give 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.

(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

8.1.1.5 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	
	Password	
	Password Confirm	
(2)—	User	
	Password	
	Password Confirm	
		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 Moo	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.
screeTo ch	are only 4 cameras, you won't be able to switch to 9, 16, and 13 split mode. nge the video quality, right-click on the screen and select between High, or Low.
(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 8.3</u>)
(9) Status Bar	Display the current date, time and hard disk free space.
(10) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(11) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.
(12) 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
	w function supports for certain VGA card. For more information, please ur VGA 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 save the setting and **Cancel** to exit without saving the setting.

	System Setting	×
(1)	-Storage Path-	
	Folder Name Free Space Disk Space(Used)	
	C:\RemoteData 15.58G 30.00G	
	, Add Delete	
(1)	Language	
	Language English	
(1)	Remote Server	
	Server IP 192.168.153.169	
	Server Part 80	
(1)	Channel Settings OK Cancel	

(1) Storage Path

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

- Enable network storage

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

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

(2) Language

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

Channe	Set	ting	gs												
I▼ All															
Trans	mitt	ing	Cha	nne	els										
~	1	~	2	7	з	◄	4	•	5	~	6	~	7	•	8
~	9	~	10	7	11	◄	12	~	13	~	14	~	15	~	16
Visible	e Ch	ann	els												
	1		-		-				-		-				-
~	9	~	10	2	11	~	12	~	13	7	14	~	15	•	16
			[(ЭК				С	and	el				

Console screen. To select all the cameras, enable the ALL check box.

8.3 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.

			-	Sur 27 3 10 17 24 1	1	Mor 28 4 11 18 25	1	Tue 29 5 12	١	Ne 30 6	d '	Thu 31		Fri	8	Sat						С	ance	1
			-	3 10 17 24		4 11 18		5				31												
				10 17 24		11 18				6				1		2	-							_
				17 24		18		12				7		8		9								
				24						13		14		15		16								
						25		19		20		21		22		23								
				1				26		27		28	_	29		30								
						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
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07																								
08																								
09																								
10																								
11																								
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13																								
14																								
15																								
16																								

To Make a Selection:

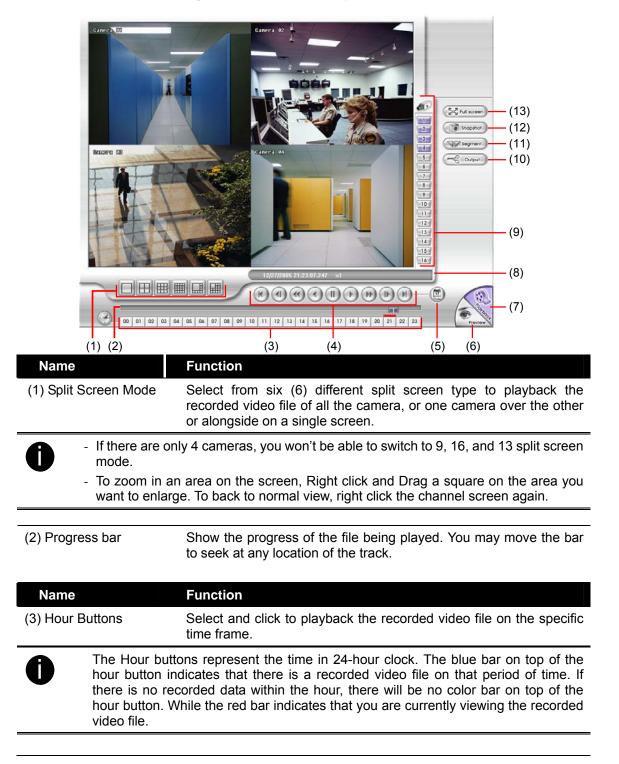
- Select the date in the calendar. Use
 buttons to shift the calendar to the left or right.
- 2. In the table below, click on the blue block to select and open the recorded file. The blue



block turns red when it is selected. The block that appears in white doesn't have data. You can only select one block when you choose Download and Playback.

- 3. Click **OK** to proceed and **Cancel** to void this operation.
- 4. If you select Download Playback and after making the selection, the system divides the selected hour into 16 video thumbnails. In the Time Selection screen, click on the video thumbnail you want to download (see also <u>Chapter 8.3.2</u>).

8.3.1 Familiarizing the Local Playback Buttons



(4) Playback Control	Begin: Move at the beginning of the recorded video file.
Buttons	Previous: Go back to the previous frame.
	Slower: Play the recorded video file at the speed of $\frac{1}{2}x$, $\frac{1}{4}x$, or $\frac{1}{6}x$.
	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.
01 to 16 repr to start playir	s from 00 to 23 represent the time in 24-hour clock. The numbers from resent the camera ID. While the red colored column indicates on where ng the recorded video file. If there is no any video data, it will be no color the date button.
(6) Preview	Switch to Preview/Playback mode.
(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 o the mouse or ESC on the keyboard.

8.3.1.1 To Cut and Save the Wanted Portion of the Recorded Video

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

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

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

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

- 3. Click 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 As			? 🛛
Savejn: 🞯	Desktop	•	-
Hy Docume My Comput My Networ Picture	er		
File <u>n</u> ame:	2005_11_25_7_56_24		<u>S</u> ave
Save as <u>t</u> ype:	MPEG Files (*.mpg)	-	Cancel
	MPEG Files (*.mpg) AVI Files (*.avi) DVR Files (*.dvr)		

8.3.2 Familiarizing the Download and Playback Buttons

Name (1) Progress bar	Function 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	 Begin: Move at the beginning of the video file. Previous: Go back to the previous frame. Slower: Play the recorded video file at the speed of 1/2x, 1/4x, or 1/8x. Rewind: Wind back the 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.
Name	Function
(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> .

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.

lenething alalog.								
User Login								
CD-Key No.								
Product	EB1304NET 💌							
	Reset							

First input the MAC address of your DVR system and select the product name. Then click **OK** to login or **Reset** to clear the previous input.

2. Password

Set a password to secure your identification.

Input your password					
Password ***					
OK Reset					

3. User Information

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

User Information						
Host Name	AVerMedia	*				
Domain Name		Ť.				
Password	***	*				
Confirm Password	kokk	*				
E_mail	odysseus@ms1.url.cor	*				
Company	AVerMedia					
Country	Taiwan	-				
	K Reset	-				

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

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