User's Manual

500W V1.2

Intelligent & Triplex 4CH MPEG-2 DVS





Please read the instructions thoroughly before operation and retain it for future reference.

WARNING

All the safety and operating instructions should be read before operation. The improper operation may cause permanent damage.



• This adaptor is only for this machine.

Do not use it for other electronic products or it will damage other products.

- · Please lift and place this equipment gently.
- · Do not expose this equipment to direct sunlight.
- Do not use this equipment near water or in contact with water.
- Do not spill liquid of any kind on the equipment.
- · Please power down the unit before unplugging.
- Do not block the ventilation holes at the top and bottom of the unit.
- Do not switch the Power On & Off within short period of time (within 3 seconds).
- Installation should be made by qualified service personnel.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance-(servicing) instructions in the literature accompanying the appliance.



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■ What do you get?

FEATURES

- · Remote control via the internet
- Connect video web server via IE browser
- · Auto sending message by e-mail or FTP when alarm occurs
- MPEG-2 compression format
- USB Backup (backup files by USB Sticker and USB HDD devices).
- High resolution: 720 X 480 pixels <NTSC> 720 x 576 pixels <PAL>
- Triplex function (record, playback and live at the same time)
- Picture-in-Picture (PIP) in live
- More accurate motion detection function
- Alarm input & output function
- Linear Zoom (2x)
- Recording rate: Up to 30 frames/sec (NTSC) ; Up to 25 frames/sec (PAL).
- Support 1 removable HDD, IDE TYPE.
- Quick multiple search by event / time list
- Security password protection

CONTENT



Digital Video Recorder(with HDD cartridge)





User's Manual

2 Keys



Accessories pack



Accessories pack



Power Adapter and Cord



CD-ROM

Warning:

- 1. Please check the package to make sure that you receive the complete accessories shown above.
- 2. The adaptor is DC19V 2A. If it is damaged, users can find replacement adaptor locally with this specification.

SPECIFICATIONS

Specifications are subject to change without notice.

Recording Mode	Manual / Timer
Main Monitor Output	Composite video signal 1 Vp-p 75 Ω BNC
Call Monitor Output	Composite video signal 1 Vp-p 75 Ω BNC
Motion Detect Area	16 * 12 targets per camera
Video Loss Detection	Yes
USB Interface	1 port. Support USB 1.1 Device
Refresh Rate	120 frames/sec. for NTSC $$ / 100 frames/sec. for PAL $^{\oplus}$
Recording Rate	Up to 30 frames/sec. for NTSC / 25 frames/sec. for PAL
Dwell Time	Programmable (1~24 Sec)
Picture in Picture	Yes (Movable)
Key Lock	Yes
Picture Zoom	2*2 (Movable)
Camera Title	8 letters
Video Adjustable	Hue/ Color/ Contrast/ Brightness Adjustable
Alarm Input	TTL input, Hi (5V), Low (GND)
Alarm Output	COM./N.O/N.C
Trigger & Action	E-Mail images or images uploading to FTP site's specific account/ Remote Recording
Web Interface	Yes
Time Display Format	YY/MM/DD, DD/MM/YY, MM/DD/YY, OFF
Power Source	DC 19V
Power Consumption	<32W
Operation Temperature	10 °C∼ 40 °C (32 °F∼104°F)
Dimension (mm)	343(W) x 223(L) x 59(H)

 \oplus NTSC: 4CH x 30IPS = 120 frames/sec, PAL: 4CH x 25IPS = 100 frames/sec

Before Operation

INSTALLATION GUIDE

- 1. Table below is an example of connecting the DVR to existing Observation System.
- 2. Install HDD (The compatible HDD models are listed in the following table).

Please refer to page 46 Appendix A for installation instructions.

- Note: 1. The HDD must be installed before turning on the DVR. If HDD is not installed, the DVR would function as a 4 CH multiplexer.
 - 2. Users need to set the HDD on the Master mode for system detecting.



COMPATIBLE HARD DISK MODELS

Manufacturer	Model	Capacity	Rotation
HITACHI	Deskstar 180 GXP (120 GB)	120GB	7200 rpm
HITACHI	Deskstar 7K250, HDS722516VLAT20	160GB	7200 rpm
HITACHI	Deskstar 7K250, HDS722525VLAT80	250GB	7200 rpm
IBM	Deskstar 120GXP (80GB)	80GB	7200 rpm
IBM	Deskstar 120GXP (120GB)	120GB	7200 rpm
Maxtor	DiamondMax 536DX(60GB) 4W060H4	60GB	5400 rpm
Maxtor	DiamondMax Plus 9	80GB	7200 rpm
Maxtor	DiamondMax Plus 9, Model#6Y120L	120GB	7200 rpm
Maxtor	DiamondMax Plus 9, Model#6Y160L0	160GB	7200 rpm
Maxtor	MaxLine Plus $ {\scriptstyle [I]}$, Model#7Y250P0	250GB	7200 rpm
Seagate	Barracuda ATA IV, ST380021A	80GB	7200 rpm
Seagate	Barracuda ATA V, ST3120023A	120GB	7200 rpm
Seagate	Barracuda 7200.7 Plus, ST3160023A	160GB	7200 rpm
Western Digital	Caviar WD1200BB-00CAA1	120GB	7200 rpm
Western Digital	Caviar WD2000BB-00DWA0	200GB	7200 rpm
Western Digital	CaviarSE WD2500JB	250GB	7200 rpm

NOTE: For non-stop long-time recording, we suggest to have two HDDs for recording to ensure good reliability of HDD.



1. REMOVABLE HDD CARTRIDGE & KEYHOLE	Please refer to page 47 Appendix #B.
2. CONTROL PANEL	
LED LIGHT	 The LED Light is ON under the following conditions. HDD : HDD is reading or recording. HDD Full : HDD is full . ALARM : To turn off the ALARM LED light, please refer to page 14 and set the ALARM mode as OFF. TIMER : When Timer is Enabled. PLAY : Playing mode. REC : Recording mode.
MENU	Press MENU button to enter main menu.
ENTER	Press ENTER button for confirmation.
SEARCH	Press SEARCH button for searching recorded video.
Zoom	Press ZOOM button to enlarge the picture display.
/+ PICTURE IN PICTURE	PIP: Press "PIP" button for Picture in Picture screen. + : Press "+ " button can change the setting in the menu.
H / - 4 CHANNELS	Press " 🕀 " button for 4 CH display modes and press twice to enter POP (Picture On Picture) function. - : Press " - " button can change the setting in the menu.
SLOW	To slow down the speed of playing mode.
POWER	Press Power to turn ON / OFF the DVR.
FF / ►	 FF : Play video fast forward. (Press FF button again to adjust speed as 3, 45, 600 times) ► : Under setup mode, it works as Right button.
REW / ◀	 REW : Play video fast backward. (Press REW button again to adjust speed as 15, 90, 600 times). ◀ : Under setup mode, it works as Left button.
STOP / ▼	 STOP : Under DVR Recording / Playing mode, it can stop the action. ▼ : Under setup mode, it works as Down button.
PAUSE / 🔺	 Pause : Under DVR playing mode, it can make the action pause. ▲ : Under setup mode, it works as Up button.
PLAY	Press "PLAY" button to playback recorded video.
REC	Press "REC" to start recording.
CAMERA SELECT (1-4)	Press the Camera Select (1-4) to select the camera.
ENTER + SEARCH	Press both "ENTER" and "SEARCH" buttons to enter the USB Backup Menu.
ENTER + ZOOM	Press both "ENTER" and "ZOOM" buttons to start the PTZ operation mode.
MENU + ENTER	Press both "MENU" and "ENTER" buttons to Lock/Unlock the keyboard.
REC + STOP	Press both ""REC" and "STOP" buttons to inactivate RETR.
REC + PLAY	Press both ""REC" and "PLAY" buttons to activate RETR.

REAR PANEL



1. LAN

Connect DVR by LAN cable.

2. EXTERNAL I/O

- · Controlled remotely by an external device or control system such as Video Web Server or PC.
- Alarm input, external I / O expansion.

3. VIDEO INPUT (1-4)

Connect to video source, such as camera.

4. MAIN AND CALL MONITOR

Connect to the main monitor. Connect to CALL monitor. Show the Switch Display. When alarm trigger happens, it will change to dwell modes of alarm.

5. FAN

For ventilation, do not block the opening.

6. POWER

Please use the provided power cord.

Warning:

1. The adaptor is only for this machine. Do not use it for other electronic product or it might damage other products.

2. The adaptor is DC19V 2A. If it is damaged, users can find replacement adaptor locally with this specification.

Basic Operation

GETTING STARTED





- 1.Connect the AC power cord and plug into an electrical outlet. The Red LED indicator light will be ON and the DVR is in Standby mode.
- Press the Power button. The POWER LED will turn from red to orange, and other red LED indicators will be turned ON. It takes approximately 5 to 15 seconds to boot the system with the message : " HDD Detecting ". Once connected, the POWER LED will change to color green, and the Alarm LED will be ON.
- 3. Before operating the DVR, set the system time first. (refer to page18).
- NOTE : 1. If the HDD is not installed correctly or not installed, the "NO HDD!", "HDD KEY UNLOCK!", "UNKNOWN FILE SYSTEM! PLEASE FORMAT IT!" messages will appear for 3 seconds, and then return to 4 CH Multiplexer display mode.
 - *** "UNKNOWN FILE SYSTEM!": The format of HDD is not accepted by the DVR system. The system only accepts <u>EXT3</u> format. Users can format HDD by selecting "HDD FORMAT" on SYSTEM menu.
 - 2.. To switch the system, you need to turn off the power and pull out the AC power cord. Before you reconnect the power, press "FF" to NTSC system or "REW" to PAL system and then reconnect to the AC power cord and then the DVR will be auto-detecting.

 $(warning: \ \ \ Please \ \ confirm \ that \ the \ power \ of \ the \ machine \ is \ off \ before \ unplugging \ the \ power \ cord.$

Moreover, if the power system is unstable, we suggest installing UPS .)

OPERATION

RECORDING

The DVR offers 2 recording modes (Timer and Manual). Under the recording status, if power is off accidentally, the recorded video will still be stored in the HDD. DVR will return to previous original recording setting after power restores.



→ Ab 007.2 GB	O/W
The first character: (Frame/Sea A: 30 <ntsc> 25 <pal> B: 15 <ntsc> 12 <pal> C: 5 <ntsc> 4 <pal> The second character: (Record a: Best b: High c:Normal d 007.2 GB: the capacity of HDD O/W: HDD is overwritten</pal></ntsc></pal></ntsc></pal></ntsc>	c) Quality) : Basic is available

NOTE : Under O/W Recording mode, previously recorded files will be automatically overwritten.

1. TIMER RECORDING

Recording is scheduled by a Timer. It will indicate by the symbol $\, {f O} \,$ and $\, {f O} \,$.

2. MANUAL RECORDING

Recording is initiated manually by pressing the REC button. Symbol 🖞 will be shown.

If the system is shut down, the system will resume recording automatically.

PLAY BACK

Press the "PLAY" and select the channel which you want to display on the middle of the screen and press the enter bottom.

When users select the channel, users can also press the number buttons on the front panel.



Press "PIP" button to change the Location of channel which users just set up.



Press **"ENTER"** button to enlarge the video to full screen.



1. F.F. (FAST FORWARD) & F.R. (FAST REWIND)

Increase the speed of Fast Forward and Rewind on the DVR by pressing the "FF" button.

In the Play mode, press " ► " once to get 3X speed forward and press twice to get 45X speed,... and the maximum speed to reach 600X.

Press " < " once to get 15X speed rewind and press twice to get 90X speed, … and the maximum speed can reach 600X.

2. S.F. (SLOW FORWARD)

Slow down the speed of Forward on the DVR by pressing the "SLOW" button.

In the Play mode, press the "SLOW" button to enter the Slow mode.

Press "SLOW " once to get 1/4X speed forward and press " ► " to get 1/8 speed,... and the slowest speed can reach 1/16X.

3. PAUSE

The image will be motionless and displayed on the screen.

4. STOP

Press "STOP" button to stop displaying a video.

5. IMAGE JOG DIAL

It will allow you to view video frame-by-frame manually, one image at a time.

In PLAY mode, press "PAUSE ", it will pause the video.

Press " ► " button advances one step.

- Press " ◀ " button moves back one image.
- NOTE: Under overwriting and duplex modes, when the playback motion is interrupted by unknown causes, please press "Stop" and then the "PLAY" button to start playing again.

Detailed Menu Setup

MAIN MENU



Press "MENU" button to enter the main menu at first time. The default password is 000000. Pleas press "ENTER" menu six times to enter the menu when the password is default value.

There are 9 options available in the Main Menu.

USERG	2004-SEP-30 THU]09:46:27	
	MENU	RECORD Record Scheduling CAMERA Camera Setup
	RECORD CAMERA DETECTION	DETECTION Motion / Alarm Setup DISPLAY Display Mode Setup USER User Password Setup SYSTEM System Setup
	USER SYSTEM EVENT	EVENT Event List NETWORK Network Setup PTZ PTZ Camera Setup
	NETWORK PTZ Retr	RETRRETR Setup

The following buttons are used for menu setting :

- "▲" "▼" "◀" "▶" : Move the cursor.
- "+" and "-": Select the numbers/ change values.
- ENTER : Enter a submenu mode / an option under a submenu for browsing / Confirm the selection.
- MENU : Enter the menu mode / Confirm the change/ Exit a menu.

MAIN OPTIONS

RECORD

USERG	2004-5	EP-3	al THN Jea: 66	:1
	RECORD			
MANUAL RECOR	D		YES	
HDD OVERWRIT	E		NO	
RECORD SETUP	HAN	JAL	TIMER	
QUALITY	H	GI	HIGH	
FRAME-SEC		36	30	
DAY	START	E	ND	
OFF	60:00	84:	69	
OFF	60:00	84:	69	
OFF	88:55	84:	80	
OFF	60:00	84:	69	
OFF	60:05	84:	6.9	
OFF	60:00	84:	@ D	

Press the "▲" "▼" "◀" "▶" buttons to move the cursor. Press the "+" "-" buttons to change the digit. Press the "MENU" button to confirm the changes/ to exit the menu.

1. STOP RECORD

The system will stop manual recording function during the recording period if the setting is "YES". And then, press the "ENTER" button to save the changed value.

- Note: 1. The users have to stop recording function on this menu because the users cannot stop it by pressing any front-panel buttons during the recording period.
 - On the Timer Recording mode, users have to either change the RECORD METHOD setting from TIMER to MANUAL or change the timer setting to stop the timer recording function.

2. FRAME / SEC

Select the recording speed. The options are as following : NTSC - 30 \ 15 \ 5 PAL - 25 \ 12 \ 4

3. QUALITY

There are four image qualities : BEST, HIGH, NORMAL, BASIC.

4. HDD OVERWRITE

To set the HDD OVERWRITE. When the HDD is going to be full under O/W recording mode, previously recorded files will be overwritten without further warning notices if the HDD OVERWRITE is "ON".

5. RECORD METHOD

There are two recording methods: MANUAL (by pressing the "REC" button) and TIMER (by setting the timer recording).

***On the Timer Recording mode, users have to either change the RECORD METHOD setting from TIMER to MANUAL or change the timer setting to stop the timer recording function.

TIMER SETUP

141.00111	SSR4-DEC-SS THU	17:86:33
	ing built	
	RECORD	
HANUAL RECOR	B (FRC	
HERE OVERING 11	F. 1955	
And American Strength	and a second second	
Rectained and and	Persinal Compa	
STREET IN	ULSI DAGIL	
FRAME/SEC.	25 25	
2015	START END	
0EE	98:48 84:88	
0.00	90-00 D4-04	
Suris!	99198 04188	
UFE	00100 24100	
0 F F	00-00 31:00	
001	enant of the	

Press the " \blacktriangle " " \blacktriangledown " " \blacklozenge " buttons to move the cursor.

Press the "+" "-" buttons to change the digit.

Press the "MENU" button to confirm the changes/ to exit the menu.

1. DAY

Choose the day for recording. The options are:

MON(Monday), TUE (Tuesday), WED (Wednesday), THR (Thursday), FRI (Friday), SAT (Saturday), SUN (Sunday),

MO-FR (Monday to Friday), SA-SU (Saturday to Sunday), OFF, and DAILY(on each day).

* Date could be changed by "+" and "-" buttons.

2. START

The beginning of recording time.

3. END

The end of recording time.

CAMERA

	CAME	RA			
TITLE	REC	BR	CT	CL	HUE
CAMERA01	ON	31	31	31	31
CAMERAØS	ON	31	31	31	31
CAMERA@3	ON	31	31	31	31
CAMERA04	ON	31	31	31	31
CAMERA DE	FAULT	N	0		

Press the " \blacktriangle " " \checkmark " " \checkmark " " \checkmark " buttons to move the cursor.

Press the "+" "-" buttons to change the option/digit.

Press the "MENU" button to confirm the changes/ to exit the menu.

1. TITLE

Assign a title to each channel. The default title is the camera's number (Up to 8 characters).

2. REC (RECORD)

Select a channel to record.

ON : when the timer input is triggered, DVR will record a video.

- OFF : DVR will not record.
- 3. BR (BRIGHTNESS)

Adjust the brightness of each channel. The level is from 0 to 63.

4. CT (CONTRAST)

Adjust the contrast of each channel. The level is from 0 to 63.

5. CL (COLOR)

Adjust the color of each channel. The level is from 0 to 63.

6. HUE (HUE)

Adjust the hue of each channel. The level is from 0 to 63.

7. CAMERA DEFAULT

The setting of BR/CT/CL/HUE will be back to the default value, which is 31.

DETECTION



Press the " \blacktriangle " " \checkmark "" " \checkmark " " " \checkmark " " " \checkmark " " " \checkmark " " \checkmark " " " \checkmark " " "

Press the "+" "-" buttons to change the option.

Press the "MENU" button to confirm the changes/ to exit the menu.

1. DET (DETECTION)

The motion detection on each channel can be turned ON or OFF individually.

2. AREA

Press the "ENTER" button to set target-area.

In this function, it is defaulted to detect nothing.

After entering the setting, users will see the pink area, which means the undetected area, and users can set the area to

be detected, and which will turn from pink to transparent.

The Pink target represents the undetected area.

The Transparent target represents the Motion Detection Area.



The beginning of Motion Detection Setting-Non activate area



Motion Detection Setting – A row-target detected



Motion Detection Setting-One Target undetected



Motion Detection Setting – A detected target

 $\blacksquare \blacksquare \blacksquare$: navigates between targets.

- : turns all targets on the screen ON/ OFF.

+ : press once to set a motion target, press twice to set a row of motion target..

3. LS (Level Sensitivity)

Comparing the difference between two images to allow the system to start motion detection function. Lower number = higher sensitivity for motion detection. The highest sensitivity setting is 02, the lowest sensitivity setting is 15. The default value is 06.

4. SS (Spatial Sensitivity)

Set the number of motion detection targets (from 0-192 target areas). The highest sensitivity setting is 0, and the lowest sensitivity setting is 15. The default setting is 02.

Note: The setting of Spatial Sensitivity cannot be more than the number of targets set in the AREA.

5. TS (Temporal Sensitivity)

The system will start the motion detection function if the continuous fields are all different. The highest sensitivity setting is 0, and the lowest sensitivity setting is 15. The default setting is 02.

6. RE (REFERENCE)

Set the Reference image to which the current screen is compared (from 0-63).

For example, the value 8 would compare the current image to the 8th previous image. The higher value will increase the sensitivity. The default value is 10.

7. Alarm

Select LOW / OFF / HIGH for alarm polarity. The default alarm value is OFF.

8. Duration Time

You can set durative time of detection. (1, 2, 3, 4, 8, 24, 60), the default value is 02.

9. Day, Start, End of Duration

Choose the day for recording, the beginning of recording time and the end of recording time.

Note: When the motion detection function is triggered during the recording period. The symbol 🔂 will be shown.

When the alarm function is triggered during the recording period. The symbol will be shown ${f G}$.

DISPLAY

DISPLAY	
TITLE DISPLAY	YES
OSD COLOR	WHITE
CURSOR COLOR	RED
LOSS SCREEN	BLACK
OSD POSITION	CENTER
PLAYBACK METHOD	FRAME
PIP OPTION	SETUP
DWELL OPTION	SETUP

Press the " \blacktriangle " " \checkmark " " \checkmark " " \checkmark " "buttons to move the cursor.

Press the "+" "-" buttons to change the option/digit.

Press the "MENU" button to confirm the changes/ to exit the menu.

1. TITLE DISPLAY

Set the title showing on monitor.

2. OSD COLOR

Select the OSD (On Screen Display) color. The options are WHITE, RED, YELLOW, CYAN, BLUE, PINK, GRAY, ORANGE.

3. CURSOR COLOR

Select the cursor color. The options are RED, YELLOW, GREEN, CYAN, BLUE, PINK, GRAY, ORANGE.

NOTE: The setting of OSD COLOR and CURSOR COLOR cannot be the same.

4. LOSS SCREEN

Select a way to display the screen when the video input is out of order. The options are BLACK, BLUE and RETAIN (retain the last picture).

5. OSD POSITION

Select the OSD POSITION. The options are NORMAL (in upper right corner) or CENTER.

6. PLAYBACK METHOD

Select a video type to playback. The options are frame and field. 1 frame equals two fields.

7. PIP OPTION / DWELL OPTION(refer to p.16 and 17)

To enter the PIP setting menu/DWELL setting menu.

PIP OPTION





Press the " \blacktriangle " " \blacktriangledown " buttons to move the cursor.

Press the "+" "-" buttons to change the option.

Press the "MENU" button to confirm the changes/ to exit the menu.

1. FULL SCREEN

The full screen background picture display.

2. PIP SCREEN

The picture with a 1/9 size screen "insert".

3. POSITION

There are six position settings : D/L (Down/Left), D/M (Down/Middle), D/R (Down/Right), U/L (Up/Left), U/M (Up/Middle), U/R (Up/Right).

DWELL OPTION

DWELL		
	NORM	ALARM
CAMERA@1	85	02
CAMERA02	92	02
CAMERA03	92	02
CAMERA04	82	02

Press the "▲" "▼" "◀" "▶" buttons to move the cursor.

Press the "+" "-" buttons to change the option.

Press the "MENU" button to confirm the changes/ to exit the menu.

1. NORM

To set up the DWELL time period that each channel shows sequentially automatically on call monitor. The level is from 01 to 24 Sec or OFF.

2. ALARM

To set up the DWELL time period when the alarm input is triggered.

The level is from 01 to 24 Sec or OFF.

USER

USER	
	PASSWORD
SUPERVISOR	000000
USER1	0000000
USER2	0000000
USER3	000000
USER4	0000000
USERS	0000000
USERG	0000000

Press the "▲" "▼" "◀" "▶" buttons to move the cursor.

Press the "+" "-" buttons to change the option/digit.

Press the "MENU" button to confirm the changes/ to exit the menu.

1. USER

To set up the user's account for controlling. It allows 7 users setting.

Supervisor – Control all the functions.

Other Users - View all functions except the menu setting and event list cleaning.

2. PASSWORD

To set the security password for each account.

The maximum length of user's password is 6 digits.

NOTE: When you reset your DVR, please login as supervisor.

- 1. Lock the keyboard.
- 2. Enter the password.
- 3. Unlock the keyboard.

<u>SYSTEM</u>

SUPERVISOR	2004-SEP-17 FRI 16:04:93 System	
KEY HUTE BUZZER HESSAGE LAT DATE BISPLA DATE TIME HDD FORMAT SYSTEM RESE LANDUAGE UPGRABE	13H 9ETUP CH 0FF V V/R/C 8004-9EP-1? 35:94-9E HOL15H SETUP	Press the "▲" "▼" "◀" "▶" buttons to move the cursor. Press the "+" "-"buttons t0 change the setting Press the "MENU" button to confirm the changes/ to exit the menu

1. KEY MUTE

To set the KEY MUTE. When the setting is "ON", there will be no sound when you press any key.

2. BUZZER (refer to page 19)

To enter the buzzer setup menu.

3. MESSAGE LATCH

The default setting of messages displaying is 10 seconds when the setting is "ON".

4. DATE DISPLAY

Set the date display. The options are Y/M/D, D/M/Y, M/D/Y and OFF.

5. DATE

Set the date.

6. TIME

Set the time.

7. HDD FORMAT

Format HDD by selecting "FORMATE" option. After formating the HDD, the system will restart.

WARNING!!AFTER THE FORMA THE SYSTEM WILL RESTART.			Н	DD	FORM	ΑT
THE SYSTEM WILL RESTART.	WARN	ING	'AF	TER	THE	FORMAT
	THE	SYST	EM.	WIL	L RES	START.

- Note: 1. The system will take about 12 minutes to format 80 GB HDD.
 - 2. After formatting the HDD, you would find that the space about 12% is occupied.

8. SYSTEM RESET

Reset all system settings back to factory default setting.

```
LOAD DEFAULT
WARNING!!
ARE YOU SURE TO SET
FACTORY DEFAULT ?
YES NO
```

9. LANGUAGE

Select one language for menu displaying. The options are ENGLISH and CHINESE. The system will automatically save the setting.

10. UPGRADE(refer to page 19)

To enter the upgrade setup menu.

BUZZER SETUP



1. BUZZER

Set the BUZZER "ON", it will buzz when event occurs.

2. EXT ALARM

To set the EXT ALARM. It will be trigged by event occurrence when the setting is "ON".

3. VLOSS ALARM

To set the VLOSS ALARM. When the setting is "ON", the alarm will start after setting Buzzer, EXT Alarm or Alarm Duration.

4. MOTION ALARM

To set the MOTION ALARM. When the setting is "ON", the alarm will start after setting Buzzer and EXT Alarm.

UPGRADE SETUP



Note: 1.Please ask your agent to get the latest firmware.2.The file name is "ug784.dat". Please do not change the file name.3. If you save it in the USB. Do not put it in the folder.

Users can upgrade the DVR software by USB memory device.

YES: Upgrade No : Cancel

It will take few minutes to upgrade the whole system. Users cannot unplug the power cord, or turn off the power during the period of upgrading.

The whole system setting will be disable when the system is upgrading.

Therefore, users have to reset all settings after upgrading.

CHECK CRC: The system will check the firmware status to ensure the quality of system.



EVENT

EVEN	T
VLOSS	LOG
ALARM	LOG
MOTION	LOG
ALL	LOG
DELETE	ALL

Press the "▲" "▼" buttons to move the cursor.
Press the "ENTER" button to get into the submenu.
The EVENT shows the recording list of different types.
The VIDEO LOSS section lists the record of video loss.
The ALARM LOG section lists the record of triggering by external I/O alarm.
The MOTION LOG section lists the record of triggering by motion detection.
The ALL LOG section lists all types of records.
The DELETE ALL option will delete all records.

				1/ 7
			EVENT	
CH	ACT	ON	YEAR-MON-DAY	HO: MI:SE
	KEY	LOCK	2000-JAN-01	01:33:35
	KEY	ULOCK	2000-JAN-01	01:33:37
	KEY	LOCK	2020-JAN-01	01:33:39
	KEY	ULOCK	2020-JAN-01	01:33:41
CH4	VLOS	55	2000-JAN-01	01:33:51
CH4	UL03	SS	2000-JAN-01	01:33:53
CH3	UL05	35	2020-JAN-01	01:33:55
	KEY	LOCK	2000-JAN-01	01:34:24
	KEY	ULOCK	2020-JAN-01	01:34:26
	PWR	RESET	2000-JAN-01	01:37:05
	PUR	RESET	2020-JAN-01	01:39:20
	PUR	RESET	2000-JAN-01	01:43:02

A single page can display 12 recorded events.

Press " \blacktriangleleft " or " \blacktriangleright " button to change the pages.

Note: The event list show 256 item at most. When the list is over 256, it will overwrite automatically. PWR RESET: The system will automatically record when the system has been reset.

NETWORK

SUPERVISOR	2	884-SEP-17 FRI 15:84:38
	NE	TWORK
IP ADDRESS		198.168.001.171
METHASK		255.255.255.002
GATERAY		198,168.001:854
DHS		169.895.198.001
PORT		00368
LOAD DEFAUL	T:	NO

Press the " \blacktriangle " " \blacktriangledown " " \checkmark " " \blacktriangleright " buttons to move the cursor.

Press the " + " " - " buttons to change the digit.

Press the "MENU" button to confirm the changes/ to exit the menu.

Set IP ADDRESS, NETMASK, GATEWAY, DNS and PORT.

Choose YES in LOAD DEFAULT will go back to default value of NETWORK.

PT.	<u>Z</u>			
	SUPERVISOR	8004-SEP-1	7 FRI]18:84:39	
		[579]		
	TITLE CAMERABI CAMERABE CAMERABO CAMERABO CAMERABA	CURRENT 10 000 001 002 003	NEW 10 080 081 082 083	Press the " \blacktriangle " " \blacktriangledown " " \blacklozenge " buttons to move the cursor.
		ENTER:CONFIRM		Press the "+" "-" buttons to change the digit.
				Press the "ENTER" button to confirm the changes/ "MENU" to exit the menu.

- 1.Please press ENTER after set NEW ID, then the CURRENT ID and NEW ID will change to the same number which you have set.
- 2. When the PTZ had been installed, you can see the ID of PTZ on the Screen. Please check that the ID is the same as the ID displayed in PTZ MENU.



Press the "▲" "▼" buttons to move the cursor.
Press the "+" "-" buttons to change the digit.
Press the "MENU" button to confirm the changes/ to exit the menu.

Remote Event Trigger Recording is only for PC.

1.MODE

You can choose the display mode when the event is triggered.

2.RETR DELAY

The RETR DELAY section lists 3 delaying settings, including "03MIN","05MIN" and "10 MIN".

3.Control RETR via AP

You can control RETR via AP. Please click "R.E.T.R." button to activate it.

Note : 1. When you activate it, the color of the button "R.E.T.R." is red.

2. If you want to return to control RETR via DVR's panel. Please click "R.E.T.R." button and enter the password. The color the button "R.E.T.R." is blue, when you inactivate it.



Advanced Operation

OPERATION OPTIONS

<u>2X ZOOM</u>

Press the "ZOOM" button, It displays zoomed picture on main picture and a small inserted window.

The inserted window contains a movable 1/4 view size of the appointed camera. The range is 2X.



• Press the "ZOOM" button again to exit the zoom pointer.

• Press Camera 1-4 button to select a channel.

• Press $\blacktriangle \lor \blacklozenge \lor$ buttons to move the zoom position.

VIDEO LOSS

The screen will display "VLOSS" in the center of display picture, if the video input is not connected properly.



SEARCH

Press "SEARCH" button to play the recording.



Select a channel for searching a video record.

Press "▲" "▼" buttons to select camera.

Press the "ENTER" button to get into menu/ submenu

Press the "MENU" button to confirm the changes/exit the menu

SEARCH MODE



Press the "ENTER" button to get into each submenu.

1. EVENT SEARCH

Display all the videos, which have been motion triggered on the recording mode.

Note : When you playback recorded video, it would play with fast speed. And when you press "PLAY" button, it would return to normal speed.

2. TIME SEARCH

Enter a period recording for searching a video.



Press "ENTER" button to move to next digit. Press "+" "-" button to change the digit.

•Select

Enter a period of time for searching a video.



If the users enter a inexistent period, it will show "PRESS MENU KEY TO RETURN". After enter the "MENU" button, the screen will back to the previous screen.

3. LIST ALL

List all video records.

		64 65		
	YZ MZ D	HO:HI:SE	MI:SE	TYPE
631	2004/09/28	05:20:00	10:00	DI
632	2004/08/28	05:30:01	09:59	D1
633	2004/08/28	05:40:00	10:00	D1
-634-	2004708728	05:50:01	09:59	D1
635	2004/08/28	06:00:00	10:00	DI
636	2004/08/28	06:10:00	06:43	D1
637	2004/08/30	10:41:12	00:03	D1
638	8004/08/30	10:41:15	00:27	DI
639	2004/08/30	18:41:48	88:00	DI
640	2004/08/30	10:42:14	00:06	DI

Press the "▲" "▼" buttons to select one record.

Press the "ENTER" / "PLAY" buttons to display.

1. Y/M/D

The Month and the Date display(Year/Month/Date).

2. HO:MI:SE

The beginning of recording time(Hour:Minute:Second). 3. MI:SE

The duration of playing time(Minute:Second).

4. TYPE

D1: Multiplex mode (input images of a channel at a time).

USB BACKUP



Users may have to format the USB memory device(USB Sticker and USB HDD devices) by PC before connecting to the DVR. Press both "ENTER"+ "SEARCH" buttons, enter the USB BACKUP mode.

Users can save files into the USB memory device, and read files by personal computer.

The system will detect the USB memory device automatically. it will show "DETECTING USB DEVICE"

Inside of the symbol [] shows the available space of the USB memory device.

В	ACKUP		
CH1	CHS	CH3	CH4
[•]	[]	[]	[]
BEGIN :20	04/07	/07	16:25
END :20	04/07	/08	17:00 OK
297116	9]/[114	239 KBs
			Ċ.
0	K	CA	NCEL



Press "◀" "▶" buttons to select a channel or move to the next digit.

Press "+" "-" buttons to change the digit.

- Step 1: Choose a certain camera by pressing "◀" "▶" buttons.
- Step 2: Enter the beginning and the end of time by pressing "+" "-" buttons.
- Step 3: Select OK by pressing "ENTER" button (shows the recording space).
- Step 4: Select OK again to start to backup a file.

[]/[]: [Recording space] / [Total available space of the USB memory device].

NOTE:

- 1. The USB memory device can only be detected by these three file types: FAT32 (WINDOWS), EXT3 (LINUX), EXT2 (LINUX)
- 2. The system will take a few minutes to search if the file is too large.
- 3. The backup files can only be read by WinDVD and PowerDVD software.
- 4. The 4CH recording mode will play as four times speed when you playback recorded video. (The same does 3CH and 2CH. 3CHà triple. 2CHà double.)

KEY LOCK

For advanced security, users can "Lock" the buttons on your DVR. Key-Lock prevents other people from using the system. Press "ENTER" + "MENU" at the same time to enable Key Lock.

Press "ENTER" + "MENU" at the same time and key in password (Default : 000000), and then press "ENTER" to disable Key Lock.

NOTE: To switch to different USER, press "ENTER" + "MENU" buttons to "KEY LOCK" and then enter the different user's password to UNLOCK.

Network Setting Guide

HARDWARE CONNECTION AT SERVER SIDE



SOFTWARE INSTALLATION

1.Put the attached CD into a CD-ROM and it will start to install the application program into PC.

2. Press "Next".



3. Choose destination location and press "Next".

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thea	ise liestmaturo Locatino		Ð
:	ette all ista Mileo Server Sur	detfolger galaxies	
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	o instal to clic Terchit di Lillino, di	ekBrunnen et dist oct und ner die etory.	
["Elestination Directory	*10% at	-
	Comparable Verder intervention		
	- MARIO 10 10 10 10 10 10	0.94 VB	
	Ebace available and histo	14758 3 MB	
— QSahin		· gas Eest >	Zarov.

4.Set program shortcuts setting and press "Next".

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Set Program Shorbcuts	\mathbb{R}
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Chemistran An Mani	_
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💌 Crosse The role too the Desisters	
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5.Press "Next" to begin to copy files

Continue Requirements	×
Continu Selep Sellings	ا
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Desidos Diversus	
Elick NEXT to begin copying files	
Coak Pasto	to ad

6. After the installation, there are 6 files and 1 folder in your assigned path (file folder) as below.





÷









UnInstall_2... UnInstall_2... Video Server S VideoServer...

LOCAL SETTING

Local Area Network Setting

Step1 Please enter the net work menu and get the IP Address of this DVR.

SUPERVISOR	21	104-SEP-17 FRI]15	:04:30
	HET	WORK	
IP ADDRE	SS :	192.168.001.010	
METHASK		255.255.255.000	
GATERAY		192.168.001.065	
DHS		168.095.192.001	
PORT		00060	
LOAD DEFI	AULT:	No	

<u>Step 2</u> Network setting for PC. (The instruction is based on Win XP O/S. If your O/S is Win 2000 or Win 2003, the setup procedure is similar to that of Win XP O/S)



<u>Step 3</u> Click "Properties" for TCP/IP setup

neral Support		
Connection		
Status:		Connected
Oureston		03.49.23
Speed:		100.0 Mbps
Activity	Sent — 🕺 —	Received
Packets:	832	802
Properties	Disable	

STEP 4 Click on "INTERNET PROTOCAL (TCP/IP)" and then select "Properties" to setup



STEP 5 Choose "Use the following IP address"



<u>STEP 6</u> Connect DVR and Computer with cross over cable

STEP 7 Click 😝 twice an	d enter your User name, Password
🚍 Video Web Server	
User Name : admin	
Password : *****	
Server IP : 192. 168 . 1 . 10	DVR's IP
Web Port : 80 Address Bo	ok 🖭
OK SEARCH CANCEL	

STATIC IP SETTING

Step1: Static IP setting

In DVR MENU / NETWORK set IP ADDRESS, GATEWAY, NET MASK, DNS and WEB PORT which are provided from your local ISP (internet service provider).

RENOTE	2884-DEC-24 FRI 83145145
	n GHU
	RECORD
	CANERA
	DETECTION
	DISPLAY
	USER
	SYSTER
	EUCHT
	HETWORK.
	PT2
	RETR

For example

REMOTE		004-DEC-24 FRI 10:35:19
	NE.	TWORK
IP ADDRESS		061.066.138.074
NETMASK		255.255.255.000
GATEWAY		061.066.138.254
DNS		168.095.001.001
PORT		00080
LOAD DEFAUL	T:	NO

After all network settings are finished, please connect DVR and static IP.



Step2: Connect PC and DVR via internet

Click Existing twice and enter your User name, Password (Note : If you never change the "Account" before, the User Name and Password are both "admin") and Server IP which you have set to DVR in step 2. Then click OK to connect.

User Name	:	admin
Password	:	*****
Server IP	:	61.66.138.74
Web Port	:	80 Address Book

DYNAMIC IP SETTING

Step1: Software installation

1.Put the attached CD into a CD-ROM and it will start to install the application program into PC.

2. Press "Next".



4.Set program shortcuts setting and press "Next".

Sel L'organie Shorleute		×
Set Program Sharbcubs		\mathbb{R}
Tek ip will and The to the the Sites to Pre Voe mary also accidence Sites (Classics you Create Stock and Mary	vgrano mane . • Contratta	
Victor Teller S		_
 A Minimum to the sector the Covers file to it with a Design Official 		
	KECC BOAT O	Gartes

3. Choose destination location and press "Next".

Charw whice the used to		×
t house Destanation For a		Ð
Sobup 4. Install Video s	erver 5 in the to puting strettery	
s all in his his to	in shed	
To install to a different o	ectory, did. Drowne and select enother directory ε	
- Constant Stating		-
	granes -	
Collengean Flied/Mos	Gen-er D	
State legitied on dr-	20161	
Subur coalcole on de-	27 Yes 3 He	
— USalup —	the Mind is	(
	1 E.C. 4158.0	Call.

5.Press "Next" to begin copying files

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Can	linn Setup Settings		S
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	CrartyR og en Menu Chtry: Niceo Sel ver S		
	Boart Monu Bhorcours Notice Service 5		
	Servicings St. of Cold		-
MP-In	Click MEXT to be	gin copying likes.	
- Upbill	p.	(cut (Mod.))	caned

6.After the installation, there are 6 files and 1 folder in your assigned path (file folder) as below.







6







IJL15.DLL CtrlFile

UnInstall_2... UnInstall_2... Video Server S VideoServer...

Step2: DDNS apply

1. Click on free site "http://www.dyndns.org" (please look at the example below, you can also apply DDNS in other DDNS web page) and "Account".

2.	Press	"Create	Account".
<u> </u>	11000	orouto	71000ant 1



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De Dit Agent De Dit Agent Litter Agent Diget

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Lo: n

3. Register the information and click on "Create Account"

the law law	ters from these Chemists have 1
Create Account	
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In the second second	Delaw with concease in an income with the second
Front Inc. Belleville	- + 141
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1.84 million	
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Sector sector	Contraction of the second
2 martine	
Carlor Ferreral 1	

DynDNS.org

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4.After registering your account, you will receive an e-mail, which contains instructions to activate your account. If you do not follow these directions within 48 hours, you will need to re-register your account.

DynDNS.org

5.Login your account.



7 Users can set up their own DDNS HOST. For example, the user's applied Host name is "test.dyndns.org". And then press "Add Host" to finish the setting. (NOTE : Some routers don't support some DDNS HOST)

DynDNS.	org			Logod b To motor Laphar
	About 2	stors Accord	Support Devolutions Nova	
Custom DWS Securitary(RM)	New Dynamic DNS	i Host		
Energy Company Company	Hostianix	test For past and dark	in jeg ynemene coet), une <u>Custern Ditti</u>	
Reserve BIS Factories Basecol TH2 Hare To Classific	#" Actoress Energie Wildoord Mail Exchanger (optional)	lest Acathert	F Backup MKY	

Step2:Login router

NOTE : The following settings are different from router to router. Please read the instruction of your router thoroughly.

1.Connect PC and router (LAN end)



2. Network setting for PC. (The instruction is based on Win XP O/S. If your O/S is Win 2000 or Win 2003, the setup procedure is similar to that of Win XP O/S)



3.Click "Properties" for TCP/IP setup

aneral Support		
Connection		
Status:	Conn	ected
Outetion	03	49:23
Speed:	100.0	Mbps
Activity	Sent — 🚉 — Rec	eived
Packets:	832	802
Properties	Disable	

4.Click on "INTERNET PROTOCAL (TCP/IP)" and then select "Properties" to setup

-	Authoritizet	ine Aska	(Concerning)			
amini filli	Annenoca	IUNI AGVE	LINCHT			
Come	tusing:					
-	Realtek RTL	8139 Fam	ily PCI Fast B	themet Nill	50 C	
This co	nnection use	es the follo	wing items:	[Configure	
8	ClientforM	crosoftNe	eworks			
2.	File and Pri	nter Sharir	ig for Microso	n Network	9	
1	0oS Packe	Schedul	er.			
54	0oS Packe Internet Pro	1 Schedul locol (TCF	er MP)			
2.4	0oS Packe Internet Pro	t Schedule locol (TCF	er (/IP)		Pronortias	
	OoS Packe Internet Pro	1 Schedul locol (TCF	er VIP) Uninstell		Properties	
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Desc Alg	DoS Packe Internet Pro Install Install Install Install	I Schedul locol (TCF	er (VIP) Uninstall coess resourc	es on e M	Properties crosoft netwo	ırk,
Desc Alo	OoS Packe Internet Pro Install . Install . Install .	r Schedul locol (TCF	er VIP) Uninstell Coess resourc		Properties crosoft netwo	utk,
Desc Alg	CoS Packe Internet Pro	i Scheduli locol (TCF	er VIP) Uninstell coess resourc	res on a M	Properties crosoft netwo	urk,
Desc Alo	Install. Install. Install. We your com	1 Schedul locol (TCF) puter to ac	Uninstall	res on e M	Properties crosoft netwo	utk,
Desc Alo	InstalL. InstalL. InstalL. InstalL. InstalL. InstalL.	1 Schedul locol (TCF puter to ex Ricetion ar	Uninstall Coess resources when com	res on e M rected	Properties crosoft netwo	ark,

5. Choose "Obtain an IP address automatically"

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® Carie an Phonessan an an truty ⊖Use heith sèng Part Bess				
Field cos:	112	68	I	10
Fulling to ask	250	. 205	250 .	C
	1			

6. Enter "Command Prompt"



7. In the setting window, enter "ipconfig" to write down router's gateway(e.q. 192.168.1.1)



8. Close the window in the above step. Enter the IP address (router's gateway : 192.168.1.1) to log in to the router from internet explore. And then enter the login web page and key in the router's user name and password.

<u>р</u> ив	3	ĬX
User Name Password	192.108.1.1	
	OK Cance	1

Step3:Router setting

NOTE : In the router setting, we have four steps as follows.

- 1. Dial setting
- 2. DHCP setting
- 3. Virtual server setting
- 4. DDNS setting

1. Press "INTERNER PORT" and choose your WAN type (e.q. PPPoE), and then enter your "User Name" and "Password" of dialing up to dynamic IP.

Press save after you finish the set up.

BroadBand Router	Del
SETUP WIZASD	I CADAR NOED SETUP I CONETWORK STATUS I CONTRERS
Internet	Port - DSL dynamic Mode
FFF08 (DSL &	nami: modt
	00 - 00 - 201 - 10 - 10 - 10 Modify
	EFL-04AX
PPPoE Account	Active Profile : 💌 1 🖤 2 🖤 3
User Name	test
Paseword	
Confirm Password	
Service Name	

2. Press "LOCAL PORT" and set "Start IP address" and "Number of IP address".

(For example, if the IP address of DVR is 192.168.1.10, then 10 is excluded from the setting range) Press save after you finish setting up.

BroadBand Router BroadBand Router BondBand Router Contraction Point Scrup WIZARD	
La	cal Port
	192 128 1 1
Subnet Mask	235 255 255 0
DHCF Server	
🗢 Co not distribute IP address to loc	
 Distribute IP address to local com 	
	192 168 1 20
	²⁰ (1+253)
Static DHCFIP & MAC adda.	Codig.

3. In "ADVANCED SETUP / Virtual Server". Choose "By Port" and set "Port Number" to 80 for DVR. And set "Local Server IP Address" to 192.168.1.10.

Press add after you finish the set up.

BroadBand Router BroadBand Router BroadBand Router BroadBand Router BroadBand Router	CONTERNET PORT	
		Virtual Server
	Add Virtual Server Method Application (Port.) Port Type Single/Range Port Number Local Server IP Address	Ey Name By Port PIP(GPU) TCP UDP Single Range D to TC TC

4. In "ADVANCED SETUP / Dynamic DNS". Key in the "DNS Account", "User Name" and "Password" that you applied in step 3. Press save after you finish the set up.

BroadBand Router DreadBand Router Insatline Jourse Setup WIZARD	CENTERNET FORT LELOCAL FORT CADUANCED SETUP ONETWORK STATUS COTHERS			
	Dynamic DNS Punction	🖌 Enable <u>?</u>	Fraze Updete IP	
	DNS Account User Name Password	test pwrys	dinaka-ay 🗾	

Step4: IP setting

In DVR MENU / NETWORK set SERVER IP, GATEWAY, NET MASK, DNS and WEB PORT.



Please get the number of IP ADDRESS, NETMASK, GATEWAY, DNS, PORT, LOAD DEFAULT from your ISP company.

Step5: Connect router



Step6: Connect to DMR via internet

- 1. Change PC network setting to the original setting and link PC to the internet.
- 2. Click with twice and enter your User name, Password and host (Note : The default User Name and Password are both "admin"). Then click OK to connect.

🚍 VIDEO V	Neb Serve	R	
User Nam	e : admi	n	
Password	: *****		
Server IP	: test.	Dyndns.org	
Web Port	: 80	Address Book 📳 —	Backup Program
OK S	EARCH		Play the last record file
	User	IP Address	
	admin	test.dydns.org	

NOTE:

There are two ways to get the software, one is via attached CD, and the other is via Video Web Server.(Refer to P.51~52) VAddress Book

You can press "Address Book" button to add a new IP or choose any logined IP address to access the Video Server. This function is designed to store the list of IP addresses which you can control and manage.

✓Backup Program

You can press " 🛐 " button and you can backup all related files of this application program to any storage device that you want (for example: any hard disk or USB Flash Drive).

✓Play last record file

You can press " **b** " button and you can play the last record file.

Note of Dynamic IP setting

*In step 2.7 : Some routers don't support some DDNS HOST.

*In step 3.1 : Please use router's LAN end to connect PC.

*In step 3.8 : Please use IE browser to enter router's gateway.

*In step 4.1 : Please make sure that you have pressed save after setting.

*In step 4.2 : Please make sure that you have pressed save after setting.

*In step 4.3 : Please make sure that you have pressed add after setting.

*In step 4.4 : Please make sure that you have pressed save after setting.

*In step 6 : Please use router's LAN end to connect to DMR. Use WAN end to connect to ADSL modem.

*In step 7 : The Server IP is the DDNS HOST which you set in step 4.4.

SOFTWARE OPERATION AT CLIENT SIDE

Follow the steps for connection at your client site (remote site). (e.g. If you set up the server at your office with one static ADSL, you can remotely proceed to watch the video anywhere with a networked computer.)

<u>Step 1</u> : Click twice to enter Login setup (please refer to page 18"software installation")

<u>Step 2</u>: Key in "User Name" and " Password". Click "OK" to establish the connection.

<u>Step 3</u>: If you could see the video screen as following, you have been connecting successfully to the server.



INTRODUCTION OF BASIC OPERATION

A. Video Web Server control panel



- 1. Image transmission rate per second
- 2. Data transmission rate
- 3. Connection/Disconnection
- 4. Resolution : D1 、 CIF
- 5. Image quality : High 、 Middle 、 Low
- 6. Image adjusting : Brightness/ Contrast/ Saturation
- 7. Snapshot : press this button, the image will be automatically saved in the PC.
- 8. Record : press this button, the recording file will be saved in the PC automatically.
- 9. System Config
- 10. Number of online users

B. Digital device control panel



* +/-:

**TURBO:

NOTE :

- 1. CH1-4
- 2. PIP/+, QUAD/- *
- 3. Zoom, Lock, Record, Search
- 4. Stop, Rewind, Fast Forward , Pause, Slow, Play
- 5. Menu / up / down / left / right
- 6. PTZ
- 7.Enter
- 8.TURBO**
- 9.R.E.T.R.

PLAYBACK OPERATION

Please find a recording file in the PC and click twice on it to playback.



- 1. On Screen Display
- 2. Snapshot
- 3. Stop

Press "+" or "-" to change the default value.

Activate the turbo button when you would like to shift the

selection more quickly by jumping 6 selections at a time.

After you press the record icon, there will be a recording file in

the path that you have set. Each recording file can be save up to 6000 frames. The recording file will be assigned to the

second file if it is more than 6000 frames. Besides, if the HDD

space is less than 200MB, the program will stop recording.

- 4. Pause
- 5. Slow (1/2, 1/4, 1/8, 1/16, 1/32)
- 6. PLAY
- 7. Fast
- 8. OSD show / hide
- 9. Config Setting
- 10. Open Last File
- 11. Open Next File
- 12. Duration time / Status
- 13. Playback controlling bar

ADVANCED SETTING

Click "SYSTEM CONFIG" for advanced setting.



NOTE : Apply--After changing all setting, press "apply" to refresh the data. Reboot--Press this button to restart setting.

ACCOUNT



Set up the user's account(Max 10 accounts) , password and authority (Max 6 accounts on line at the same time) .

1.User's level:

SUPERVISOR-control all the functions HIGH LEVEL-control advanced functions NORMAL -control basic functions only GUEST LEVEL –watch the image only 2.Life time : During the period of time, users are allowed to control the Video Web Server.

ALARM



Set up the ALARM function. You can use it to operate "alarm trigger recording" function.

1.Alarm Trigger: Enable or disable Alarm trigger				
function.				
2.Alarm Method : Two selections—E-mail or FTP.				
3.Image Resolution : Image storing resolution for				
Email or FTP function.				
(CIF is 176*144; D1 is 352*288)				
4.Alarm refresh : Clean the alarm message " 🎽 "				
which is showed on the screen.				

MAIL



FTP

Account	ToolBox	Online User	Alarm
R.E.T.R.	Mail		File Path
IserName :	[
'assword :	[
'ort :	21		
Server :	[
Directory :	1		

When the alarm is triggered, the video server program will capture the instant picture and e-mail the captured image to the assigned recipients.

- Get all the data from the ISP company or by mailing to the server supplier.(SMTP server)
- 2. Set the mail list which you want to send to when the alarm is triggered.
- No matter you set up the verify password or not, it depend on your mail server. If it is not necessary. Please choose verify as "No".

When the alarm is triggered, the video server program will capture the instant picture and upload the captured image to the assigned FTP site.

Get all the data from your FTP provider.
 The default uploading port is No.21.
 Set the uploading directory.

Note: Mail function and FTP fuction would work when the alarm trigger is enabled.

File Path

System setting			
Account R.E.T.R.	ToolBox Mail	Online User	Alarm File Path
Record Path :			5
Modify	:\ Documents and S	ettings\test\desktop	
Snapshot Path :			
Modify	:\ Documents and S	ettings\test\desktop	
Audio Path :			
Modify C	:\Program Files\Vi	deo Server SWalam	n.wav
EXIT	API	PLY	REBOOT

You can modify the storing path for recording file and snapshot images.

TOOLBOX



Online User

R.E.T.R. Account	Mail ToolBox	FT Onli	P] ne User	File H	°ath m
Online user	information :			Info Refre	sh
Name	IP Address	Level	Chan	Resol	Q
jonuliy	211.19.04.90			TON	

Upgrade the firmware and get the online users' information. NOTE :Do not reboot the DVR while it is upgrading the firmware.

- 1.Firmware Version : The current firmware version.
- 2. Find and upgrade Firmware: Please get the firmware from your agent and save it in your PC or USB. Press "Find" button to get the latest firmware from PC and press "Upgrade_Firmware" to upgrade it.
- **3.Turbo Step:** Set the shift step when you shift the zone which you see during the zoom in function.

The information of online user.

RETR

Account	ToolBox	Online User	Alarm
R.E.T.R.	Mail	FTP	File Path
Remote Record :	• Enable	C Disable	
Quality :	🔿 High	🔿 Middle	🖲 Low
Resolution :	○ 704*576	352*288	
Connection Check GATEWAY)	IP : 192 . 1	68 . 1 . 65	
R.E.T.R : fime Limit	DAILY 💌	0 : 0	
EVIT	ADD	V I	PEBOOT

RETR setup.

1. Remote Record : please click "Enable"			
to start it.			
2. Quality : High, Middle and Low.			
3. Resolution : 704*576, 352*288 。			
4. Connection Check IP : check the connection			
situation of network.			
5. R.E.T.R. Time Limit : end time setup.			

CONNECT VIDEO WEB SERVER VIA IE BROWSER

You can also connect Video Web Server via browser. This function is suitable in both WIN 2000 and WIN XP

(WIN XP is preferable to WIN 2000)

Step 1: Enter IP address that you want to connect.(example)



Step 2 : Enter your Username and Password to login Video Web Server.



Step 3 : After you login, you will see as below. (example)



- 1.Image transmission rate per second
- 2.Data transmission rate
- 3.Video Channel
- 4. Resolution :D1 、 CIF
- 5.Image quality : High 、 Middle 、 Low
- 6.Number of online users
- 7.Channel switching button
- 8. Resolution switching button

- 9. Quality switching button
- 10.Menu, Left, Right, Up, Down, Exit
- 11.Lock, Enter, Zoom, Search, Select.
- 12.Stop, Play, Record, Rew, Fast, Pause, Slow,
- 13.Camera
- 14.4cut, PIP
- 15. Position of view
- Note: If you control the DVR via IE Browser, the RETR function can not be worked.

TROUBLESHOOTING

When malfunction occurs, it may not be serious and can be corrected easily. The table below describes some typical problems and their solutions. Please check them before calling your DVR dealer.

PROBLEM	SOLUTION			
No power	I Check power cord connections.			
	I Confirm that there is power at the outlet.			
Not working when pressing any	I Check if it is under Key Lock mode.			
bullon	Press "MENU" & "ENTER" to exit Key Lock mode.			
No recorded video	I Check if the HDD is installed properly.			
Timer Record enable does not working	I Check if the Record Enable is set to YES			
No live video	I Check camera video cable and connections.			
	I Check monitor video cable and connections.			
	I Confirm that the camera has power.			
	I Check the setting of camera lens.			
NTSC & PAL System switch	To switch the system, press " FF " to NTSC system and " REV PAL system. (Refer to Page 6 "GETTING STARTED".)			
Under overwritting and duplex modes, the playback motion is interrupted	please press "STOP" button and then the "PLAY" button to play again			

APPENDIX A- INSTALL THE HDD

Follow the steps carefully in order to ensure correct installation.

The compartment located on the front panel of the DVR is the removable Cartridge, in which you insert the HDD. The various parts of the Cartridge are labeled for your reference.

Note: Users need to set the HDD on the Master mode for the system detecting.



- Step 1 Connect the connector with the HDD (refer to Picture 1).
- Step 2 Put HDD into the HDD cartridge. Please notice the bottom side is power side as chart shows (refer to Picture 2).
- Step 3 Screw the HDD to the cartridge. Before you screw the HDD, please be aware that you must to level pin 1 of the HDD at pin 1 mark, because the screw hole is different from different HDD brands.
 Then screw the HDD correctly (refer to Picture 3 and 4). You must precisely align the hard disk to the pin connection to ensure correct installation.
- Step 4 Reverse the HDD and put it into DVR (refer to Picture 5 and 6).
- Step 5 Connect the HDD with DVR (refer to Picture 7).
- Step 6 Lock the cabinet by turning the key clockwise (refer to Picture 8).



B (unlocked)

- Note : If you do not lock the cabinet, the DVR system will not functior properly.
- Step 7 Close the cap (refer to Picture 9).



APPENDIX B- REPLACE THE HDD



Step 1 Open the cap



Step 3 Pull out the cartridge



Step 2 Unlock the cabinet by turning the key anti-clockwise



Step 4 Loosen all screws on the Cartridge



B (unlocked)



Step 5

- Note: 1. If you want to change a different HDD, you must remove the connectors from HDD (refer to Page 44).
 - 2. When HDD works for a period of time, the surface temperature will be high, please pay attention to it.
 - 3. After turning the key to unlock position, please wait for several seconds until HDD operation stop completely.

HDD HOT SWAP FUNCTION

Please follow the steps as following to ensure the reliability.

1)Unlock the cabinet by turning the key anti-clockwise.

2)Key in your password and press enter to disable the hard drive.

3)Pull out the HDD cartridge.

4)Replace the HDD in the tray.

Note: After turning the key to unlocked position, please wait for several seconds till HDD operation stops completely.

APPENDIX C- RECORDING SPEED

The Recording Time is different based on Recording Speed, Recording Quality and Recording Mode. Please refer to following table. HDD capability is 250GB.

NTSC SYSTEM

IPS		30	15	5
	Best	106hr	212hr	636hr
Multiplex	High	132hr	264hr	792hr
Mode	Normal	213hr	426hr	1278hr
	Basic	326hr	652hr	1956hr
HDD Type	250 GB			

PAL SYSTEM

IPS		25	12	4
	Best	106hr	212hr	636hr
Multiplex Mode	High	132hr	264hr	792hr
	Normal	213hr	426hr	1278hr
	Basic	326hr	652hr	1956hr
HDD Type	250 GB			





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PIN 3, 4, 5, 6 ALARM INPUT

To connect wire from ALARM INPUT (PIN 3, 4, 5, 6) to GND (PIN 9) connector. When alarm has been triggered, signal becomes "Low", and it will stop all alarm activities. Under normal operation, signal remains "High".

PIN 7. EXTERNAL ALARM NC

Under normal operation COM connect with NC and disconnect from NO. But when alarm is triggered, COM disconnect with NC, and connect with NO.

PIN 8. EXTERNAL ALARM NO

Under normal operation, COM will disconnect from NO. But when Alarm is triggered, COM will connect with NO.

PIN 9. GND

GROUND

PIN 10. RS485-B

DVR can be controlled remotely by an external device or control system, such as a control keyboard, using RS-485 serial communications signals.

PIN 11. RS485-A

DVR can be controlled remotely by an external device or control system, using RS-485 serial communications signals. PIN 14. ALARM RESET (INPUT)

To connect wire from ALARM RESET (PIN 14) to GND (PIN 9) connector, it can disable ALARM. An external signal to ALARM RESET (PIN 14) can be used to reset both ALARM OUTPUT signal and DVR's internal buzzer. When alarm has been triggered, signal becomes "Low", and it will stop all alarm activities. Under normal operation, signal remains "High". PIN 15. EXTERNAL ALARM COM

Under normal operation COM connect with NC and disconnect from NO. But when alarm is triggered, COM disconnect from NC, and connect with NO.