4CH DIGITAL VIDEO RECORDER

DR4HL

INSTRUCTION MANUAL

Befor connecting, operating or adjusting this product, read this instruction booklet carefully and completely





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Introduction

Thank you for purchasing the GANZ DIGIMASTER.

This DVR is produced using the most advanced CBC technology and its quality is guaranteed by strict reliability and compatibility testing.

This manual provides necessary information for the correct use of this product and also contains some useful tips.

Please read this manual thoroughly before using your DVR in order to prevent possible malfunctions due to any mishandling.

Notice

This manual applies to the DR4HL.

This manual describes the external features of GANZ DIGIMASTER, part names, correct connection methods for supported domes or pan/tilt receivers, control devices, peripheral devices and the system setup instructions. It is important to note here that some features, figures, pictures and references can only be applied to just one model.

- CBC cannot be held responsible if the DVR is damaged due to the use of non-compatible devices with this product. If you have any doubts, please check.
- CBC cannot be held responsible if the DVR is damaged due to the product being disassembled or modified by the user.
- This product is qualified for both domestic and industrial use. This product is qualified under the Radio Equipment Requirements of Korea and acquired international certification including CE (Europe) and FCC (USA).

This manual is written based on the 4 Channel DVR. The contents may change according to the number of Channels and the type of exterior equipment.



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CBC is not held responsible if the DVR is damaged as a result of improper handling by a user unaware of how to operate this product or who did not consult this manual before attempting to operate the product. CBC reserves the right to change the contents of this manual without notice.

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Caution

Please be aware of the following precautions before installing the DVR.

Avoid positioning the GANZ DIGIMASTER in any place where the unit may come into contact with moisture, dust, or soot.

- Avoid placing in direct sunlight or near heating appliances.
- Keep the product away from electric shock or magnetic substances.
- Avoid temperature extremes (recommended operation temperature is between 0°C and ~40°C).
- Do not place any conductive material through the ventilation grills.
- · Keep the system turned off before installation.
- Ensure that enough space is left for cable connections.
- Place the system on a solid surface with sufficient air ventilation. Avoid any surface that vibrates.
- Placing the system near electronic devices such as radio or TV may cause the product to malfunction.
- Do not disassemble the product without seeking assistance from the supplier.
- Do not place any heavy object on the system.
- Please keep cleaning the fan filter of front panel.

CALIFORNIA USA ONLY

This Perchlorate warning applies only to primary CR (Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA.

"Perchlorate Material – special handing may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate."

Safety Warnings and Cautions

The following are warnings and cautions to ensure user safety and prevent property damage. Please read the information below thoroughly.

Warning and caution signs





Do not install the system in an area featuring high magnetic, electric wave or wireless devices such as radio or TV.

 Install the system in a place without magnetic objects, electric frequencies or vibration.



Prevent any substances from entering into the system.

This may cause system malfunction.



Install the system in a place with sufficient air ventilation.

 Keep at least 15cm distance between the back of the system and the wall, and at least 5cm distance between the side of the system and any walls.



Install the system in a place with appropriate moisture and temperature levels.

Caution

• Avoid installing the system at high (over 40°C) or low (under 0°C) temperatures.



Do not place any heavy objects on the system. • This may cause system malfunction.



Install the system on a stable and level surface. • The system may not operate properly.





Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Read all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other.

A grounding type plug has two blades and a third grounding prong.

The wide blade or the third prong is provided for your safety.

When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use the attachments/accessories specified by the manufacturer.
- 12) Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.

When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) This equipment is indoor use and all the communication wirings are limited to inside of the building.
- 16) The socket-outlet shall be installed near the equipment and shall be easily accessible.
- 17) CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

- # Operation Max temperature : 40°C
- # USB Load condition: USB Ports(5 Vdc, Max. 500 mA)

Specifications & Organization

1. Specifications

Video standard	PAL/NTSC		
Audio	2-way Audio conference		
Monitor display	Real time:25 Fps (PAL), 30Fps(NTSC) per camera		
Covert camera operation	Programmable		
Event/Log search	No limitation for user login/out, config changes, remote access,		
	connects/disconnects		
Record Scheduling	Daily, Weekly adjust specific Hr per channel		
Remote Access	TCP/IP, View, Search, Recording & Control by Client Program or I.E.		
Playback	Up to 4 Channel simultaneous playback		
Pre/Post alarm recording	5 seconds(Pre), 3 minutes(Post), programmable per camera		
Activity detection	12X12, Sensitivity levels: 10		
Video inputs	4CH BNC		
Monitor outputs	1 VGA(1024X768), 1 Composite(BNC)		
Audio inputs	1 line-in, RCA socket		
Audio output	1 x line-out, RCA socket		
Resolution	352x240,704x240,704x480(NTSC), 352x288,704x288,704x576(PAL)		
Compression standard	H.264		
Recording speed	352x240:120/100(NTSC/PAL),704x240:60/50(NTSC/PAL)		
	704x480:30/25 (NTSC/PAL)		
lmage size	3-5 Kbyte (352x240, 352x288), 5-10 Kbyte (704x240, 704x288)		
	6-16 Kbyte (704x480, 704x576)		
Hard disk capacity	1 X HDD, No limit in capacity		
Secondary Storage	USB default (USB memory stick, USB HDD)		
Alarm inputs	4 x TTL, programmable as NC/NO		
Alarm outputs	1 relay out		
Back-up file formats	AVI		
Network Speed Control	8 levels		
OSD languages	English, Spanish, Dutch, Portuguese, French, Russian, Japanese, Czech,		
	German, Italian		
Ethernet interface	10/100-Base-TX, RJ-45		
Remote Function	Live View, Live Recording, Search, Set-up, Archiving		
PTZ Control	RS-485 interface		
Supply voltage	12VDC, 5A		

2. Product Contents List

Please check if all the product contents are present after opening the package.



3. System Organization



Product Description

1. Front Panel



- USB PORT: Port for USB devices, for mouse and backup.
- POWER: Turn on power of system.
- DISPLAY: Select display mode between split and full mode.
- SEARCH: Enter to search menu
- MENU: Enter to system configuration menu.
- NAVIGATION KEY: use for navigating on menu or control PTZ.

2. Rear Panel



- NTSC/PAL Switch
- Video Input: Connect to coaxial cables from the video sources to the BNC video in Connectors
- Monitor Out: Connect AV monitor for main system OSD
- Audio Input/Output: Connect Mic to Input / Connect Speaker to Output
- VGA Output: Provide for RGB monitor output
- Alarm in: Connect Sensor devices
- Relay: Connect Relay device for
- RS-485: Connect PTZ camera or Keyboard controller.
- USB PORT: Port for USB devices, for mouse and backup.
- Network: Connect RJ-45 for local network or Internet
- DC12V: Connect the Power Source from Power Adapter.

SYSTEM CONFIGURE – Remote Controller



CONNECT & POWER ON

- Connect up to 4 CAMERA INPUTS as necessary.
- · Connect one or more monitors to the DVR using the COMPOSITE, VGA connections
- Connect power to the DVR. The DVR checks for proper power connection and emits one beep. Press the **POWER BUTTON** on the front panel of the DVR to begin operation.





VIRTUAL KEYBOARD A 8 -5 5 6 D E G н F N 0 P 0 R M ы **OK** CANCEL

LIVE DISPLAY

DIVISION SCREEN

After startup diagnostics are complete, the operator must logon to the system. The default user name is 'ADMIN'. the default password of '1234' and press the **ENTER** button.



Double click on the Password tap then the Virtual Keyboard will be appeared. Then, click the password and click the OK button.

The DVR begins normal operation and shows the default display of all 4 channels. The status bar at the bottom of the screen shows current time and date and percentage of hard drive used.

A title for each channel is shown.

The red square and letter 'C' in the top right of each channel display shows that the channel is recording in Timer / Schedule mode.

2 different display modes are supported by the 4 channel DVR. By repeatedly pressing the **DISPLAY** button, the operator can choose between single screen, 4 screen and basic sequence modes.

Press the Enter button. Then red square on camera title will be shown.

If pressing the Enter button again by moving the navigation key, user can select the single display channel.





Click the right mouse button on the Live Display screen and click the **SEQUENCE** menu.

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AR	HIV	ENG		
RE) STA	ART		
SE	UFN	PE		
PT	2			
SY	TEM	SET	UP	
RE	ORD	SET	UP	
LO	OFF			
SH	JTDO	IN		
	_	_	_	_

All the display modes are static with the exception of the sequence mode. In this mode, the sequence symbol () is displayed and each channel is shown in full screen for a set period of time before switching to the next channel.

The sequence runs indefinitely until a different display mode is chosen.

Manual Recording(Panic Recording, REC START)





Click the right mouse button on the Live Display screen and click the **REC START** menu

SEARCH	
ARCHIVING	
REC START	
SEQUENCE	
PTZ	
SYSTEM SETUP	
RECORD SETUP	
LOGOFF	
SHUTDOWN	

Manual recording will override all standard recording settings to provide, by default, continuous recording on all channels.

If selecting the REC START, The top right of the display shows a red square and letter 'P' only to indicate that the DVR is

in manual recording mode.

Select the REC STOP again to return to normal recording mode.

Key Lock Function







Click the right mouse button on the Live Display screen and click the **LOGOFF** menu.

and the second se
SEARCH
ARCHIVING
REC START
SEQUENCE
PTZ
SYSTEM SETUP
RECORD SETUP
LQGOFF
SHOTDOWN

An operator with ADMIN rights can choose to lock the DVR with mouse menu. Select the **KEYLOCK** button and YES.

PTZ Camera Control





Click the right mouse button on the Live Display screen and click the **PTZ** menu.

-	
SEARCH	
ARCHIV	ING
REC ST	ART
SEQUEN	ICE
PTZ	
SYSTEM	SETUP
RECORD	SETUP
LOGOFF	
SHUTDO	WN

Speed domes and other telemetry devices connected to the DVR, can be fully controlled from the front panel. In live display mode, press the **PTZ** button. To select a camera to control, use the **CHANNEL SELECTION** buttons.

Pan,Tilt and Zoom movement is controlled by the CURSOR KEYS



Click the PRESET & SWING menu.

All menus can be controlled by navigation key and pressing the mouse click.

SYSTEM SETUP

	SYSTEM SETUP
CAMERA	
I) SOUND	
SYSTEM	
EVENT2 SENSOR	×
DISK MANAGE	



Click the right mouse button on the Live Display screen and click the **SETUP** menu.

		_
SEAF	CH	
ARCH	IVING	
REC	START	
SEQU	ENCE	
PTZ		
SYST	EM SETU	P
RECO	AD SETU	P
LOGO	FF	

DISPLAY

: To setup the various display options, highlight DISPLAY and press ENTER.

DISPLAY - OSD

50	STATUS BAR	ON	\$
	CAMERA TITLE	ON	•
ONITOR	EVENT ICON	ON	\$
	BORDER	ON	\$
	LANGUAGE	ENGLISH	\$



Click the **OSD** menu and click the ON/OFF menu. Then, click the **Section** button for ON/OFF.

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STATUS BAR : Turns the status bar at the bottom of the live display ON or OFF.

CAMERA TITLE : Determines whether the camera title is displayed.

- **EVENT ICON** : Determines whether the DVR recording status is shown at the top right of each channel display window.
- BORDER : Determines whether there is a border around each channel in multi screen display mode.
- LANGUAGE: To change the Language, after selecting the language, please press the APPLY button, Then system will reboot and language will be changed.

DISPLAY - MONITOR

	1 Setup > L ay		0) 🤸 🏟 🖻	×
OSD	SEQUENCE DWELL		3 SEC	•
MONITOR	DEINTERLACE MODE		1 SEC	÷
	ALARM POP-UP DWELL MOTION POP-UP MODE		6 SEC	•
	MOTION POP-UP DWELL		15 SEC	•
		APPLY	UNDO	



Click the **MONITOR** menu and click the ON/OFF menu. Then, click the **Section** button for ON/OFF.

SEQUENCE DWELL : The time that each screen is displayed in a sequence operation.
SPOT OUT DWELL : The time that each screen is displayed in a spot operation.
DE-INTERLACE MODE : When recording any channels in D1 resolution (704 x 480 / 704 x 576) this should be set to

ON to prevent judder during playback.

- ALARM POP-UP MODE : When set to ON, an alarm input will cause the associated channel to display full screen.
- ALARM POP-UP DWELL : Determines how long the full screen popup is displayed after an alarm input. If the alarm condition continues, the popup screen is displayed constantly.
- **MOTION POP-UP MODE** : When set to ON, motion detection will cause the associated channel to display full screen.
- **MOTION POP-UP DWELL** : Determines how long the full screen popup is displayed after motion detection. If motion continues, the popup screen is displayed constantly.

To change any of these settings, highlight MONITOR and press ENTER to select.

Use the **CURSOR KEYS** to navigate to the option required. Press **ENTER** to select the option (the cursor changes to orange) and use the **CURSOR KEYS** to change the setting. Press **ENTER** to save the setting or **RETURN** to cancel.

CAMERA

To setup the various camera options, highlight CAMERA and press ENTER.

CAMERA : CAMERA TITLE

	setup > A	19-21-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	🛛 🖬 🜒 🦴 👾 📾 🛛 🗙
CAMERA	-	COLUEDT	
TITLE	-11	OFF	
COLOR			CHM1
SETUP	E 3	OFF	CAM2
07.2	- 4	OFF 2	COM4
SETUP			
MOTION			
GENEON			
CAMERA			
MODE			
			APPLY UNDO



Click the **CAMERA TITLE** menu and click ON/OFF menu on the COVERT menu. Then, click the solution for ON/OFF. Click the CAM No on the TITLE menu and change the camera name.

COVERT: When it is set to ON, the camera image is not displayed in live display but continues to be recorded. **TITLE**: For each camera, a title of up to 11 characters can be set using the virtual keyboard.

	I SYSTEH SETUP > III III STATEM SETUP > III III STATEM SETUP > IIII IIII STATEM SETUP > IIII STATEM SETUP > IIIII STATEM SETUP > IIIIII STATEM SETUP > IIIII STATEM SETUP > IIIIII STATEM SETUP > IIIII STATEM SETUP > IIII				
CAMERA		BRIGHTNESS	CONTRAST	TINT	COLOR
	I 1	50	50	50	50
COLOR	2 2	50	50	50	50
SETO	3	50	50	50	50
PTZ	- 4	50	50	50	50
MOTION					
CAMERA					

DISPLAY : COLOR SETUP



Click the COLOR SETUP menu and click the value on

BRIGHTNESS, CONTRAST, TINT and COLOR menu.

Brightness, contrast, tint and color can be adjusted for each individual channel. Highlight which channel to modify and press **ENTER**.





Click the each value by button.

The selected channel is displayed in full screen.

BRIGHTNESS, CONTRAST, TINT and COLOUR can be changed as necessary. To modify a different channel, highlight CAMERA and choose the desired channel.

Press **RETURN** when all changes are completed.



DISPLAY : PTZ SETUP



Click the PTZ SETUP menu and click the each value

the ADDRESS, PROTOCOL and BAUD RATE menu. Change the value by button.

ADDRESS: The unique ID of the PTZ device.PROTOCOL: The protocol of the PTZ device.BAUD RATE: The baud rate of the PTZ device.





Click the

22

٩

button and change the detail

value by		button.
----------	--	---------

PTZ properties can also be adjusted for each channel by selecting the icon and pressing ENTER.

Note that some settings, such as AUTO FOCUS, may not be compatible with particular PTZ equipment. If this is the case, changing this value will have no effect on PTZ control.

DISPLAY : MOTION SENSOR



Click the MOTION SENSOR menu and decide the value

the SENSITIVITY menu. Change the value by button.

	n setur > Ra 💷 🜒 🍾 🕸 📼 🛛 ×
CAMERA	SENSITIVITY
	🖼 1 5 🗧 🗧 AREA
COLOR	EM 2 5 6 C AREA
	EN 3 5 AREA
PTZ	AREA
SETUP	
MOTION	
CAMERA	
	APPLY UNDO

SENSITIVITY : Between 1 (Lowest) and 10 (Highest) and determines the degree of motion required before recording is activated.





button.

AREA SETUP : Choosing this option allows the operator to define which areas of the image are monitored for motion detection.

Blue grid squares represent detection areas.

Click the

The area on the picture shows that motion will be detected across the entire image.



To quickly select or deselect the entire grid, click the right mouse button and click **SELECT ALL** or **DESELECT ALL** menu.

Or press **RETURN** to bring up the motion menu to select or deselect the entire grid,. Choose SELECT ALL or DESELECT ALL as appropriate.





Drag the grid by the left mouse.

To select or deselect specific areas, press **ENTER** to bring up the yellow cursor square in the top left of the display.

Move the cursor using the CURSOR KEYS to the first corner of the area to be set and press ENTER

Please note

: a motion detection recording schedule must be defined in the RECORD MENU described.

DISPLAY : CAMERA MODE





To use LINELOCK CAMERA, set to ON a LINELOCK CAMERA MODE.

SOUND

To setup the various sound options, highlight SOUND and press ENTER.

SOUND : AUDIO





Click the **AUDIO** menu and click the ON/OFF menu. Then, click the **b**utton for ON/OFF.

LIVE AUDIO : When it is set to ON, the selected audio channel can be monitored on the AUDIO OUTPUT. **NETWORK AUDIO TX** : When it is set to ON, live and playback audio is transmitted to a remote PC connection. **NETWORK AUDIO RX** : When set it is to ON, allows a remote PC connection to send audio back to the DVR.

SOUND : BUZZER



KEYPAD: When it is set to ON, each front panel button pressed, is confirmed by a beep.

REMOTE CONTROL: When set to ON, each command received from the IR remote, is confirmed by a beep.

SYSTEM

To setup the various system options, highlight SYSTEM and press ENTER.

DATE / TIME

SYSTEM SYSTE	SETUP > M	9	B ()	% ∰ ⊞ ×	
DATE/TIME	DATE TIME	03/03/20	009 21:	11:15	Click the DATE / TIME menu and click the ON/OFF menu.
NETHORK	TIME FORMAT	2	4 HOUR	A	Then, click the 🔄 button for ON/OFF.
MAIL	NETWORK TIME SER pool.	WER SETUP ntp.org	511	NC.	
USER HANRGEHENT	TIME ZONE SETUP Americ	a/EST	D.S.	.T ON 🗣	
Systen Hanagehent					
CONTROL DEVICE		AP	PLY	UNDO	

DATE TIME : Allows the operator to set or modify the current date & time.

DATE FORMAT : Determines how the date is displayed.

TIME FORMAT : Determines how the time is displayed.

NETWORK TIME SERVER SETUP

: If the DVR is connected to the Internet, the time and date can be accurately set by selecting SYNC and pressing **ENTER**.

TIME ZONE SETUP : should be set according to the region that the DVR is used in.

D.S.T. : When set to ON, the DVR will automatically adjust the time by one hour on the relevant date in spring and autumn.

SYSTEH SYSTE	setup > M	1111		()) 🤸 🌲 e	- 1
DATE/TIME	DHCP	V	DDNS		
	IP ADDRESS		127.	0.0.1	
NETWORK	GATEWAY		0.0	.0.0	
	SUBNET MASK	255,255,255.0			
	1ST DNS SERVER		0.0.0.0		
	2ND DNS SERVER		0.0	.0.0	
11950	DDNS SERVER	1.1.10	dvrli	nk.net	
MANAGEMENT	RTSP SERVER PORT	554	AUTO	DELETE	
	WEB SERVER PORT	80	AUTO	DELETE	
SYSTEM MANAGEMENT	ALIAS				
	MAX TX SPEED		8 Mb	pe	•
DEVICE			APPLY	UNDO	

SYSTEM : NETWORK



Press the **NETWORK** menu and click the ON/OFF menu. Then, click the button for ON/OFF.

DHCP : When enabled, the DVR will obtain an IP address automatically if connected to a DHCP server or router.

DDNS : When enabled, the DVR can be accessed through a Dynamic DNS server.

Commonly used if a broadband connection does not have a static IP address.

IP ADDRESS : If DHCP is not being used, the IP address can be manually set.

GATEWAY : If DHCP is not being used, the gateway IP address can be manually set.

SUBNET MASK: If DHCP is not being used, the subnet mask can be manually set.

1ST DNS SERVER : If DHCP is not being used, the first DNS server can be manually set.

2ND DNS SERVER : If DHCP is not being used, the second DNS server can be manually set.

DDNS SERVER : If DDNS is enabled, the host DDNS server is specified here.

RTSP SERVER PORT : The port number that the DVR uses to support remote connection from the client software.

WEB SERVER PORT : The port number that the DVR uses to support remote connection from Internet Explorer or other web browsers.

ALIAS : Display full domain name for accessing DVR.

This will be activated when press AUTO button beside of WEB SERVER PORT.

MAX TX SPEED : Specifies the maximum bandwidth that the DVR can use during a remote connection.

Please note: If any network settings are modified, the DVR will need to be restarted for changes to take effect

OFF menu.
JEE.

SYSTEM : MAIL

SERVER : The SMTP outbound email server that should be used to send email notifications. **PORT** : The outbound email port number.

SECURITY : Set to OFF if the SERVER does not require a username and password to connect.

USER : Enter a username to identify the DVR in email messages.

PASSWORD : If SECURITY is set to ON, enter the password here.

TEST E-MAIL : Can test the E-mail function.

Please note : A USER must be entered for the mail function to operate correctly. The username must not contain spaces







Press the **USER MANAGEMENT** menu.

By default, the DVR is configured with a user ID of ADMIN, belonging to the ADMIN group and with a password of 1234.

As well as the ability to add new users, existing user details can be modified.

To modify user details, highlight the user with the blue box and double click.

	setup > M		ə () 🐴	* = ×
DATE/TIME	ADD			Ø
NETWORK	USER ID			
MAIL	GROUP ID E-MAIL	MANAGER	•	
USER HANDGEMENT	E-HAIL NOTIFICATION	OFF	÷	
SYSTEM MANAGEMENT	OK	CANCEL		
CONTROL DEVICE	ADD	APPLY	r 🗍	UNDO



Double click the **ADD** button.

To add the new user, press the ADD button.

USER ID: Edit the user ID using the virtual keyboard.

PASSWORD: Change the password using the virtual keyboard.

GROUP: Users can belong to one of two groups - MANAGER or USER.

(The user nr of ADMIN group is only one.)

E-MAIL: Enter the user's email address if email notification is required.

E-MAIL NOTIFICATION: Enable or disable email notifications for this particular user.

Please note: For security reasons, it is recommended that the ADMIN user password is changed after receiving the DVR.

SYSTEM SYSTEM	SETUP > ¶			2 () 🔨	. 🗰 🖿 🗶
	EDIT				Ø
NETWORK	USER	ID	1111		
MAIL	GROUF E-N	P ID MAIL	MANAGER	÷	
USER HANAGEMENT	E-MAIL MOTIFIC	ATION	OFF	÷	
SYSTEM	DELETE	OK	CANC	EL	
CONTROL	ADD		APPL	r T	JNDO



Double click the current user.

By virtual keyboard, detailed information can be changed.

SYSTEM: SYSTEM MANAGEMENT





Click the SYSTEM MANAGEMENT menu.

SYSTEM INFORMATION



- IP ADDRESS: Shows either the manual IP address entered in NETWORK setup or the IP address assigned by a DHCP server if enabled.
- MAC ADDRESS: Shows the MAC (Media Access Control) address of the DVR. It is unique no other network device has this MAC address.
- DISK CAPACITY: The first value shows the amount of hard drive capacity used by recorded footage, the second value shows the total hard drive capacity installed.
- F/W version: Shows the firmware version of the DVR.
- H/W version: Shows the hardware version of the DVR.
- VIDEO SIGNAL TYPE: The DVR automatically switches between PAL and NTSC depending on the

channel 1 input signal at power on.

- DDNS SERVER : If DDNS is enabled, the host DDNS server is specified here.

- RTSP SERVER PORT : The port number that the DVR uses to support remote connection from the client software.

- WEB SERVER PORT : The port number that the DVR uses to support remote connection from Internet Explorer or other web browsers.
- **SYSTEM NAME** : A system name of up to 15 characters can be defined. It is used so that notification emails can be identified.
- F/W UPDATE : Firmware updates may be released periodically to enhance system performance and add extra features. The operator can upgrade the firmware using a USB memory stick. After finishing the upgrade, system will be rebooted.
- 1) Select the "Press" icon from F/W upgrade and appear the login pop-up window.



2) After checking the USB detection from device item, press the "GET F/W" icon.



3) Select the F/W and Press the "Yes" icon.



SYSTEM SYSTEM	Setup > M		H 📢) 🔧 U	V es
DATE/TIM	DEVICE	USB MEMORY	÷	
NETWORK				
MAIL	Do yo syst	em F/W Upgrade?		

4) After finishing, system is rebooted.



5) After rebooting one time, system will ask to reboot again with below pop-up window. Press "OK" and system reboot again. After finishing reboot, F/W upgrade is finished successfully.



FACTORY DEFAULT: If settings have been changed which cause erratic behavior, the factory default settings can be loaded.

After finishing the factory default, system will be rebooted.

SYSTEN SYSTE	SETUP > M) 🤸 🦇 🖴 ×
DATEZTIME	SYSTEM INFORMATION	PRESS	_
NETWORK	Sustem configuratio	oos will be	
MAIL	initiallized. You m this syste	ust restart	e e
user Hanagehent	YES	NO	
SYSTEM HARAGEMENT			
CONTROL		APPLY	UNDO



Caution: If you try to factory default, system will ask to format after finishing the factory default.

SYSTEM DATA : System settings can be saved to a USB memory stick. The settings can be reloaded in case of accidental factory reset or can be transferred to another DVR if multiple units need to be installed with the same settings. After loading the configuration data, system will be rebooted







Click the **CONTROL DEVICE** menu and select the SYSTEM ID, PTZ Protocol and camera BAUD RATE.

This will allow up to 254 DVRs to be controlled from the same keyboard.

SYSTEM ID: If more than one DVR is connected on the same RS485 bus, each one must have a unique ID.

PROTOCOL: Must be set by Control Device.

BAUD RATE: Must be set to match the baud rate of the PTZ controller.

EVENT / SENSOR

To setup the various event handling options, highlight EVENT/SENSOR and press ENTER

EVENT / SENSOR: HDD EVENT



DISK FULL EVENT: If it sets to "ON" alarm output and buzzer are activated when HDD becomes full.



Determine the behavior of each of the 4 alarm inputs. **OPERATION:** Alarm inputs can be enabled or disabled. **TYPE:** Alarm inputs can be set as normally open (N/O) or normally closed (N/C).

EVENT / SENSOR: ALARM OUTPUT





Click the **ALARM OUTPUT** menu and click each value. Then, click the value by button to change.

Determine the behavior and actions that will trigger each of the 4 alarm outputs.

Behavior settings

- **OPERATION** : The selected alarm output can be enabled or disabled.
- HDD EVENT : Determines whether a hard drive event triggers the alarm output.
- MODE : Can be either TRANSPARENT (the output is active only when the trigger criteria is present) or

LATCHED (the output is active for a set period of time after a trigger).

DURATION : In LATCHED mode, the time that the alarm output remains active after it has been triggered.

Action settings

ALARM : Determines whether alarm inputs would trigger the alarm output.

VIDEO LOSS : Determines whether video loss on any of the selected channels will trigger the alarm output. **MOTION** : Determines whether motion detection on any of the selected channels will trigger the alarm output.

Remember to select "APPLY" and press ENTER to save all settings before exiting these menus

EVENT / SENSOR : BUZZER OUT

EVENT	OPERATION	ENABLE	HDD EVENT	ON 🗬
	MODE	LATCHED	DURATION	5 SEC 🚔
LARM				
		ALARM	VIDEO LOSS	MOTION
I ORM	1	1		1
DUTPUT	2	1	2	2
	1 3	1	X	1
SUZZER DUTPUT	4	1	V	
-MAIL				



Click the **BUZZER OUTPUT** menu and click each value. Then, click the value b

Determine the behavior and actions that will trigger the internal buzzer.

Behavior settings

OPERATION : The internal buzzer can be enabled or disabled.

HDD EVENT : Determines whether a hard drive event sounds the buzzer.

- **MODE** : Can be either TRANSPARENT (the buzzer sounds only when the trigger criteria is present) or LATCHED (the buzzer sounds for a set period of time after the trigger).
- **DURATION** : In LATCHED mode, the time that the buzzer sounds after it has been triggered.

Action settings

ALARM : Determines whether alarm inputs will sound the buzzer.

VIDEO LOSS : Determines whether video loss on any of the selected channels will sound the buzzer. **MOTION** : Determines whether motion detection on any of the selected channels will sound the buzzer.

Remember to select "APPLY" and press ENTER to save all settings before exiting these menus



EVENT / SENSOR : EMAIL NOTIFICATION



Click the **EMAIL NOTIFICATION** menu and click the each value. Then, check the usage by clicking.

Determine the behavior and actions that will send an email to a remote user.

Behavior settings

NOTIFICATION : Email notification can be turned ON or OFF.

HDD EVENT : Determine whether a hard drive event sends an email. **BOOTING EVENT**: Determines whether a reboot event sends an email.

Action settings

ALARM : Determine whether alarm inputs will send an email.

VIDEO LOSS: Determine whether video loss on any of the selected channels will send an email.

MOTION: Determine whether motion detection on any of the selected channels will send an email.

FREQUENCY: E-mail sending period (10~30MIN)

Email settings must also be configured in MAIL and USER MANAGEMENT settings described DISK MANAGE





Click the **DISK MANAGEMENT** menu.

To manage the internal hard drives, highlight DISK MANAGE and press ENTER.

RECORD TIME LIMIT: In certain circumstances, it may be necessary to limit the amount of footage stored.

on the DVR (to comply with data protection laws for example).

Recording can be limited to 12 hours, 1,2,3days, 1week or 1,month.

Once the DVR has this amount of footage stored, it will start to overwrite the earliest recorded footage.

DELETE DATA: In case of selecting the recording time limit, user can select the current data is remained or re moved.

DELETE DATA : OFF

Only ADMIN can review all recorded data even though RECORD TIME LIMIT is ON.

DELETE DATA : ON

ADMIN and Manager can review the recorded data within the duration of RECORD TIME LIMIT.

OVERWRITE: When set ON, the DVR will start overwriting the earliest recorded footage once the hard drive becomes full. In this case, the percentage of hard drive used shown in live display will always be 99%. When set to OFF, the DVR will stop recording when the disk becomes full.

FORMAT: If necessary, all footage can be erased from the DVR using this option.

DISK INFORMATION: Checking HDD Information.

Please note: When a RECORD TIME LIMIT is set, the OVERWRITE option cannot be changed

RECORD MENU

SEARCH ARCHIVING
REC START
SEQUENCE PTZ
SYSTEM SETUP
RECORD SETUP
LOGOFF SHUTDOWN

Click the **RECORD SETUP** menu.

To setup the recording behavior of the DVR, highlight RECORD MENU and press ENTER.

RECORD : RECORDING OPERATIONS





Click the **RECORDING OPERATION** menu and click the each value. Then click the value button to change.

RECORDING MODE: SIMPLE/ADVANCED

Default is simple mode. If changing the recording mode as ADVANCE, second item is

changed from

SIMPLE RECORDING to ADVANCED RECORDING.

SCHEDULE MODE : Either DAILY (one schedule will apply to every day of the week) or WEEKLY (each day of the week has its own schedule).

Please note: When recording mode is simple mode, this option cannot be changed.

PRE EVENT RECORDING TIME : When the DVR is not in continuous recording mode, this setting determines the amount of footage that is always recorded before an event occurs. (motion detection, alarm input etc.)

POST EVENT RECORDING TIME : When the DVR is not in continuous recording mode, this setting determines the amount of footage that is always recorded after an event occurs. (motion detection, alarm input etc.)

SIMPLE RECORDING





Click the SIMPLE RECORDING menu.

The simple recording controls the quality, size and FPS for all cameras at the same time. Each channel can be set for a single recording type(Continuous, Motion, Alarm)

RECORD QUALITY: Sets the video recording quality to Low, Standard, High or Highest for all cameras.

RECORD SIZE: Sets the video capture size for all camera to 352X240, 704X240, 704X480(NTSC) for all cameras.

FPS: Sets the Frames per second for recording across all channels. The FPS for the channels can be set to 1,2,3,7,15 or

30FPS for NTSC, and 1,2,3,7,13 or 25FPS for PAL.

) setup				×		SETUP			×
RECORDING	RECORD QUAL	ITY		HIGH		RECORDING	RECORD	QUALITY SIZE	HIGH	
SIMPLE	FPS			15	÷	SIMPLE RECORDING	FPS	CONTINUOUS	15	
MANUAL	CH1 CH2	6	12	18	24	MANUAL	CH1 CH2	MOTION ALARM		
	CH3 CH4						CH3 CH4	OK CANCEL		
		CONTINUOU	s 📕 MOTIO	N ALARM					on 📕 Alarm	
			APPL	Y UNDO				APF	PLY UNDO	

Click a single block to open the recording type menu. Click and Drag a block of times to configure multiple channels and times at once.

ADVANCED RECORDING

	d setup					×		Ì	•	
RECORDING		SETTING		AC.	TIVATION		Click the	e ADVANCE	D RECORDING	menu.
ADVANCED			6	12	18	24				
MANUAL										
RECORDING		SIZE	FPS	QUALITY	AUDIO	ALARM				
	I 1	704X240	15	HIGH	1	1				
	2	704X240	15	HIGH	2	2				
	3	7042240	15	HIGH	3	3				
	B 4	704X240	15	HIGH	4	4				
				APPLY	UND	0				

This setup screen allows the operator to configure the recording mode of continuous, motion and alarm recording.

.

There are 2 sections:

- **SETTING:** Recording settings for each channel can be defined across a 24 hour period, in blocks (for example between 09:00 and 18:00) or for each individual hour. Note that when SCHEDULE MODE is set to WEEKLY, each day of the week can also be selected.
- ACTIVATION: This section determines at what times the DVR will record and whether it is continuous recording , motion detection or alarm recording.

) SETUP					
RECORDING		SETTING		AC	TIVATION	
ADVANCED RECORDING		0	6	12	18	24
IANUAL						
seconding		SIZE	FPS	QUALITY	AUDIO	ALARM
	I 1	704%240	15	HIGH	1	1
	2	704%240	15	HIGH	2	2
	B 3	7042240	15	HIGH	3	3
		70.410.40	16	нтсн		



Click the SETTING menu.

40

	Select	the	time	block	that	want	to	set
--	--------	-----	------	-------	------	------	----	-----

	d setup		×	
RECORDING	SETTING	ACTIVATION		
ADVANCED RECORDING		12 18	24	
RECORDING	SIZE FPS 1 704X240 15 2 704X240 15 3 704X240 15 4 704X240 15	QUALITY AUDIO HIGH 1 HIGH 2 HIGH 3 HIGH 4 APPLY UNDO	ARM 1 2 3 4	
RECORDING OPERATIONS ADW RECT MANU RECT MANU RECT MANU 3 fram	SETUP SETTING SIZE FPS QUAL 704X240 15 HIGH 704X240 15 HIGH	ACTIVATION ITY AUDIO ALARM 1 1 1 1 2 2 2 2 2 3 3 3 3 4 4 4 4 K CANCEL APPLY UNDO		Click the SIZE, FPS, QUALITY, AUDIO and ALARM value. Then, click the value by button to change.

Press ENTER. Recording settings for the selected time period are displayed.

SIZE : Recording resolutions of 352x240/352x288, 704x240/704x288 or 704x480/704x576 can be selected for each channel.

FPS : Frame rates between 1 - 30(NTSC) or 1-25(PAL) can be set for each channel.

QUALITY : Four different picture recording qualities can be set for each channel.

AUDIO : If audio devices are connected to the DVR, any audio channel can be assigned to any of the video channels.

ALARM: Select the Alarm channel that related with alarm recording.

During playback, when a particular channel is selected in full screen, the assigned audio channel will be played back at the same time.

Adjust values as desired and select OK to finish and return to the setting menu. Other time periods can be configured in the same manner.

Remember that if SCHEDULE MODE is set to WEEKLY, recording settings need to be changed by each day as well as each particular time

Note: The DVR supports a maximum recording rate across all channels of 120 frames per second at 352x240 resolutions.

As settings are adjusted, the 'frames available' at bottom left displays

the number of available frames still remaining and must always be zero or higher.

If, whilst changing recording settings, this figure becomes negative, recording resolutions

and / or frame rates must be lowered to increase the 'frames available' value to zero or above.

ACTIVATION

Click the **ACTIVATION** menu.

	d Setup	
RECORDING OPERATIONS ADVANCED RECORDING MANUAL RECORDING	CH1 CH2 CH2 CH3 CH4 CONTINUOUS MOTION ALARM APPLY UNDO	Select the Channel and time that want to set
	d Setup 🗶	
RECORDING	SETTING	RECORDING SETTING ACTIVATION
ADVANCED RECORDING		ADVANCED 0 18 24 CONTINUOUS
MANUAL RECORDING	CH1 CH2 CH3 CH3 CH4	MANUAL RECORDING CH1 ALARM CH2 CH2 CH3 OK CANCEL
	CONTINUOUS MOTION ALARM	CONTINUOUS MOTION ALARM
	APPLY UNDO	APPLY UNDO

After selecting the channel and time, select the recording type.(Continuous, Motion and Alarm)

MANUAL RECORDING(Panic Recording)

OPERATIONS			SIZE		FP	5	QUALIT	r i	AUDI	0
		1	704X240	÷	15	÷	HIGH	-	1	÷
ADVANCED		2	704X240	÷	15	÷	HIGH	÷	2	÷
RECORDING		3	704X240	÷	15	÷	HIGH	÷	3	•
MANUAL		4	704X240	+	15	÷	HIGH	+	4	1
	MANU	AL	RECORDIN	IG T	IME			5 M	IN	-
	3 fn	am	es remair	ied						



Click the **MANUAL RECORDING.** Select the Size, Frame, Quality and audio.

During manual recording mode, the DVR will override all other recording settings and record continuously on all channels at the settings configured here.

Manual recording time: After passing the assigned time, recording is returned as original recording type.

SEARCH

ARC. TIVING REC START SEQUENCE PTZ SYSTEM SETUP
REC START SEQUENCE PTZ SYSTEM SETUP
SEQUENCE PTZ SYSTEM SETUP
SYSTEM SETUP
RECORD SETUP
LOGOFF SHUTDOWN



Click the right mouse button on the Live Display screen and click the **SEARCH** menu.

To search for a particular section of recorded footage, press the SEARCH button.

To protect unauthorized viewing of footage, only ADMIN and MANAGER user levels can playback footage. To login as ADMIN, enter the default password of 1234 and press **ENTER**.

SEARCH : TIME SEARCH

SEARCH		1×
SEARCH BY	TIME	SEARCH BY EVENT
2009 🛟 3 🜻		00:00:00 - PLAY
5 M T W T F 5 8 2 3 4 5 6 7	01234567	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 2
8 9 10 11 12 13 14 15 16 17 18 19 20 21	CH1	
29 30 31	CH3	



Click the date that user want.

The DVR uses a calendar and timeline search method for quick access to recorded footage.

The calendar displayed on the left shows the current month.

Days highlighted in green have recorded footage.

The timeline on the right shows a 24 hour status of all channels for the selected day. Light blue areas show recorded footage.





Drag the time bar by left mouse.

Press **ENTER** to select the calendar and use the **CURSOR KEYS** to move the purple square to the required day.

As different days are selected, the timeline display also changes to show recorded footage on that day. Press **ENTER** to choose the day and move to the timeline.

Use the CURSOR KEYS to move the timeline cursor left or right to select the time segment required.

Each movement of the timeline cursor increases or decreases the time by 15 minutes.

The currently selected time is displayed above the calendar.

Select the PLAY to begin playback from the selected time.



By pressing **DISPLAY** or using the **CHANNEL**

SELECTION buttons, it is possible to display a single screen or 4 screens in a similar way to

display mode.



Playback speed and direction can be controlled using the five playback buttons in menu. To exit the search screen and go back to live view, repeatedly press **RETURN**.

SEARCH : EVENT SEARCH

The DVR event log stores events such as motion and alarm activated recording, video loss etc.





Click the **SEARCH BY EVENT** menu and each value. Then click the value by button to change. Click the **START** menu.

To display the event log screen, select SEARCH BY EVENT.

Various filters can be used to limit the number of events displayed. Using the **CURSOR KEYS** and **ENTER** button, select the FROM and TO date / time and the events and channels required.

SEARC	ж						X
SE	ARCH BY T	(ME		SEARCH	BY	EVENT	
FROM	03/03/2	009 00:30:45	÷	ALARM	1	MOTION	1
то	03/04/2	009 00:30:45	÷	CONTINUOUS	1	OTHER	~
СН 1 👿 СН	2 🛒 CH 3	🖌 СН 4 📝		START			
DATE	TIME			LOG			
03/04/2009	00:30:43	LOCAL END; SEARCH;	ADHI	Ň			
03/04/2009	00:29:41	LOCAL BEGIN	11:00	HIN			
03/04/2009	00;29:36	LOCAL END; PLCORD	SETU	P:ADHIN			
03/04/2009	00:26:33	RECORD SETUP CHAN	GED:	OPERATION: ADHI	N		
03/04/2009	00;26;26	LOCAL BEGIN:RECOR	ID SE	TUP: ADHIN			
03/04/2009	00:26:23	LOCAL END: SYSTEM	SETU	P:ADHIN			
03/04/2009	00:26:17	LOCAL BEGIN: SYSTE	H SE	TUP: ADHIN			



Click the START menu.

45

Highlight START and press ENTER to display the event log for the criteria selected.

To playback footage for a particular event, select the event from the list using the **CURSOR KEYS** and press **ENTER**.



Playback resumes from the moment the selected event occurred and continues until stopped by the operator. During event search playback, playback buttons can be used as normal. To stop playback and return to live view mode, repeatedly press **RETURN**.

Note: The event log search contains the following selectable entries:
ALARM: When ticked, all alarm input events are displayed for the chosen date range.
TIMER: When ticked, scheduled recording operations are displayed for the chosen date range.
MOTION: When ticked, all motion detection events are displayed for the chosen date range.
ETC: When ticked, all other events (Video loss, remote connection etc.) are displayed for the chosen date range.

ARCHIVING

-



Click the right mouse button on the Live Display screen and Click the **ARCHIVING** menu.

To archive recorded footage to USB memory stick , select the ARCHIVING button.

To protect unauthorized viewing and distribution of footage, only the ADMIN user level can archive footage. To login as ADMIN, enter the default password of 1234 and press **ENTER**.

archiving		1
FROM TO	03/04/2009 00:43:16 03/04/2009 00:43:16 ♥ PREVIEW	
CH 1 🛒 CH 2 🚽 Include Audio 💂	CH 3 🗹 👷 4 🗹 Include Log 🗹	
DEVICE		
HODE		



Click the each value. Then click the value b Click the **START** menu.

button to change

The Archiving screen allows the operator to choose exactly what to backup and to where. Use the **CURSOR KEYS** to navigate around the Archiving screen. To change any value or setting: Press **ENTER** to change the green cursor to orange. Use the up and down **CURSOR KEYS** to change the value. Press **ENTER** to accept the value or RETURN to cancel. To change a tick box setting, press ENTER to toggle on or off.



FROM / TO: Start and end time to backup. **CHANNEL**: Video and audio for any channel

be included or excluded from the backup.

Check the "Include Audio" and "include the log"

SELECT DEVICE: Choose between USB device. **MODE**: 'Bruning' or 'Erasing&Burning'

Please note: To use a USB memory stick, it must be inserted before selecting the archiving menu

Additionally make sure to do the "PREVIRW" firstly. If not doing the "PREVIEW", user can not start

the

backup.

	ARCHIV	ING PREVIEW	
From To	ORIGINAL SIZ	E : 2388 M 698 K	PREVIEW
		SIZE	
СН 1 🛒	CH 1 :	614 M 181 K	
Include f	CH 2 :	590 M 527 K	
	CH 3 :	592 M 143 K	
DEVICE	CH 4 :	590 M 871 K	
10DE	LOG :	12 K	START
		OK	



Once all the desired archive options have been selected, highlight the START button and press **ENTER**. The DVR displays a list showing the exact information to be archived and the total archive size. If the ORIGINAL SIZE is larger than the available space on the backup media, the END TIME of the archive set is reduced accordingly.

The MODIFIED SIZE is the final file size of the archive set.

Select "OK" and press ENTER to begin the archive process.

ARCHIVING		18			
FROM TO		REVIEN	FROM	03/04/2008 01:02:37	PREVIE
CH 1	Extracting		CH 1	Please wait. Writing is Success!	
DEVICE MODE	8X STOP	START	DEVICE	BURNING	START

Once extracted, the footage is copied to DVD or USB.

Note that depending on the amount of footage selected for archive, the extracting and burning process may take some time, during which the DVR cannot be used. Normal recording is unaffected by the archive process.

REMOTE CLIENT SETUP

PRELIMINARY BEFORE CONNECT

For using web connection, 554 and 8080 ports should be done port forwarding set in Router. Refer the manual of Router for port forwarding setting

WEB RA MINI	MUM PC REQUIREMENT
CPU	P4 3.0 or Higher
RAM	512MB or Higher
	Geforce MS 400, Radeon
VGA	7500 or higher
	Gefore 8 series or higher
VGA MEMORY	64MB
MONITOR	1280X1024
OS	WINDOW XP2
IE VERSION	IE6.0 or higher
NETWORK	100Mbps
DIRECT X	V7.0 or higher

12.1 HOW TO CONNECT

Input the IP Address or URL of the DVR in the Internet Explorer Address Bar. When user uses the DDNS service, input the URL as below.

http://1234.dvrlink.net:8080 (webport :8080) or

http://1234.dvrlink.net (webport :80)



Default ID and password are 'ADMIN' &'1234'

	_101×
1 1 1 × 10 sec	P -
<u>0</u> • ⊡ - ⇒ ∰ •	Page • Safety • Tools • 😱 • "
ideal name is not available". If you trust the we	halle and the add on and want to. 🗙
Run Add-on Run Add-on on All Websites What's the Risk?	1
Information Bar Help	
	H H K So any

User needs to install Active-X, click Run Add-on



In case of, unable to install active-X, User needs to check the option of activeX on IE security menu.

Internet Options					
General Security Privacy Content Connections Programs Advanced					
Select a zone to view or change security settings.					
🗌 🧕 🔍 🗸 🚫 👘					
Internet Local intranet Trusted sites Restricted sites					
Trusted sites This zone contains websites that you trust not to damage your computer or your files. You have websites in this zone.					
Security level for this zone					
Allowed levels for this zone: All					
Hedium Prompts before downloading potentially unsafe content Unsigned ActiveX controls will not be downloaded J					
Enable Protected Mode (requires restarting Internet Explorer)					
Custom level Default level					
Reset all zones to default level					
OK Cancel Apply					

	 Enable 				
	Display video and	d animation o	on a webpage	that does	not use
	Disable				
	O Enable				
I	Download signed	ActiveX con	trols		
	O Disable				
	O Enable				
	Prompt				
	Download unsign	ed ActiveX c	ontrols		
	O Disable				
	O Enable				
	O Prompt				
	Initialize and scrip	ot ActiveX co	ontrols not ma	arked as sa	fe for sc
	 Disable 				
	O Enable				_
1	C Promot				
STakaa a	(fact = 0 = 1 = 1 = 1	abash Tabasa	the Course of Courses		
Takes e	nect after you're	start interne	et explorer		
Reset cust	om settings				
Reset to:	Medium (defa	ult)		- I I	Reset
	Interior (dera	uity			(coctini

Select Enable for all ActiveX related options.

(ex, Download signed ActiveX control, Download unsigned ActiveX control....)

12.2 LIVE MODE



Explanation of function button in LIVE mode



Select live division screen.



Move to next screen and make full screen

Display Channel	
-----------------	--

Select live channel.



Activate Mic to send a sound to DVR. On/Off Sound from DVR



Save the live image. Print the current screen. Snapshot the current screen. Setup [Render] and [Save Folder]

Status : Can see the current DVR status.

- 1. Alarm Indicator will be marked when system detects Alarm input.
- 2. Motion- Indicator will be marked when system detects Motion
- 3. Video Loss Indicator will be marked when system detects Alarm input.
- Recording Display current recording mode (T: Continuous, M: Motion, A: Alarm recoding)
- 5. Alarm Out Indicator will be marked when system detect Alarm output.
- 6. Refresh Time set interval of refresh or Reload for manual refresh.



Log : Can see the log.

Log	Date Time	Camera Title	No
TIMER RECORDING ON : #16	2009.09.24 10:57.20	CH16	1
TIMER RECORDING ON : #15	2009.09.24 10:57:20	CH15	2
TIMER RECORDING ON : #14	2009.09.24 10:57:20	CH14	3
TIMER RECORDING ON #13	2009 09 24 10 57 20	CH13	4
TIMER RECORDING ON : #12	2009.09.24 10:57:20	CH12	5
TIMER RECORDING ON : #11	2009.09.24 10:57.20	CH11	6
TIMER RECORDING ON : #10	2009.09.24 10.57.20	CH10	7
TIMER RECORDING ON : #9	2009.09.24 10:57:20	CH9	8
Refresh Time 3 sec		Page Up	Page Do

PTZ : Can control connected PTZ camera.

	annig	- F0	Curls +			
	Start 0			-	*	
Run	End 0	- Z0	om +	4	PTZ	5
	Run					
121	Run Run	(E) #				

- 1. Pattern move a camera among several preset position
- 2. Preset set a position of camera view.
- 3. Swing move a camera between two preset point.

12.3 SEARCH (Common time line search)



- 1. Select a time line on time table or set a exact time.
- 2. Then press 'Play' button

Search by time	Search by event				
2009 • / 09 • / 24	• 15 • 35	• 50 •	Refresh	Play	Backup
PRE Timer	Manual Alarm	Motion	User		
		10 11 12	12 W 13	17 18 19	20 21 22 2

1. Retresn : Retresn the data.

2. Play : After select the date and time, can play the data.

3. Backup : Can backup special channel and time.

uckup
2010-01-27 💌 오전 5:49:44 🐳 ~ 2010-01-28 💌 오전 8:59:59 🛨
Select Channel
□ Ch1 □ Ch2 □ Ch3 □ Ch4 □ Ch5 □ Ch6 □ Ch7 □ Ch8
□ Ch9 □ Ch10 □ Ch11 □ Ch12 □ Ch13 □ Ch14 □ Ch15 □ Ch16
Start Stop Exit

12.4 SEARCH BY EVENT

Setup Video Loss	Motion	12 Smart
	1921 HORCOLD	
09 • / 24 • 09 • / 24 •	00 • 00 • 00 •	Nearest - Search
	Log	
	09 • 1 24 • 09 • 1 24 •	00 u/ 24 u 00 u/ 24 u 15 u: 38 u: 36 u Log

- 1. Event : Select necessary event to playback.
- 2. Period : Select the date an time of Start to End.
- 3. Search : Start the selected data.

	th By Time	Search By Event		
Event				
M All				
✓ Syste	m	Setup	Motion	Smart Smart
₩ Alarm		Video Loss	Record	
Period				
From	2010 1 01	• / 10 •	00 • : 00 • : 00 •	
То	2010 💌 / 01	✓ / 27 ▼	14 💌 : 29 💌 : 48 💌	Nearest Search
0	late / Time		Log	
010.01.2	6 18:25:26	Local Log Off : Lh	e Display: ADMIN	
010.01.2	6 18.25.25	Local Log Off : Sy	stem Setup: ADMIN	
010 01 2	6 18:24:05	Local Log On : Sy	stem Setup: ADMIN	
010.01.2	6 18:23:28	Local Log On : Liv	e Display: ADMIN	
010.01.2	6 17:45:32	Local Log Off : Liv	e Display: ADMIN	
010.01.2	6 17:44:30	Local Log Off : Sy	stem Setup: ADMIN	
2010.01.2	6 17.44.20	Local Log On : Sy	stem Setup: ADMIN	
2010.01.2	6 17:44:11	Local Log On 1 h	e Display: ADMIN	

4. Select a event on the list then DVR starting to playback the related camera's image

12.5 SETUP MODE

All settings are same as DVR setup.

1. CAMERMA

user can configure camera's attribute such as title, live color, PTZ setup or motion

facortes # ATM			_			3	+ 10 + 13	@ * Pe	ja • Salvey • Tools • 🚯
	Lin		Death	Setup	estern	elizati .			VIEB Renute Verver
Camera	Came	a Setting							
+ Camera			Cartera	Title		wheel	Auto		
Color	Al								
PTZ	1	CH1			OFF		01 CH		
Ababaa	2	CH2			OFF		01 CH		
secon	3	CHO			OFF		O1 CH		
 Disbrak 	4	CH4			OFF	*	01 CH		
e Sound	5	CHS			OFF		OFF	•	
= System	6	CHS			OFF		OFF		
Record	7	CH7			OFF		OFF		
= Liser	8	CHE			OFF		OFF		
- Network	.9	CH9			OFF		OFF		
- Samor	10	CH10			OFF		OFF		
- Jacoba	11	CH11			OFF		OFF		
	12	CH12			OFF		OFF		
	13	CH13			OFF		OFF		
	14	CH14			OFF		OFF		
	15	CH15			OFF		OFF		
	16	CH16			OFF		OFF	•	
						CR	Carco	4	

Motion setup for detecting motion events.



- 1) Select Motion menu tab.
- 2) Select a channel and sensitivity.
- 3) Drag a mouse on image for select detecting area.
- 4) Press OK.

2. Display

1) OSD - User allow to choose text display items over the image.

SD Setting			
Photo: Disc Tennished			
continue that i intercont	10 Sec	-	
Camera Title	0n	-	
Recording Mode Icon	On	-	
Border	On	-	
Border Color	Gray	<u> </u>	
Motion Sensor Display	Off	-	
Motion Color	Diué	-	
Language	Engliah		
	Camera Trile Recording Mode Icon Border Border Coor Motion Sensor Display Motion Coor Language	Camera Tite (on Recording Mode It on Bonder Con Bonder Con (Gray Motion Sension Display Motion Sension Display Motion School Color Language (English	Casera Title On Recording Node con Bodre Con Bodre Con Bodre Con Linguage Explain Con Con Con

2) Monitor - user can set dwell time for sequence or spot, and pop up function.

	Live	Search	Setup	Infomation	
Gamera	Monitor Set	ting			
· Display		Sequence Diret 5:	Bec:	-	
OSD		Spot Dwell 5:	Sec		
Monitor		De-Interlace Mode Of		-	
= Sound	A	Jarm Pop-up Mode of		2	
e Journa	1	Varm Pop-up Dwell 5:	Sec		
= System	NA.	ation Pop-up Mode or		*	
 Record 	0 M	otion Pop-up Dwell 5:	Sec	-	
= User					
Network				OK	Cancel

3. Sound

- 1) Audio Setting Select a live audio channel and activation
- 2) Buzzer setting Activate buzzer out for event notification

	Live	Search	Setup	Information	
= Camera	Audio Settin	9			
II Display		Live Audio	Dn		
Sound	Deta	ult Audio Channel	CH		
+ Audio/Buzzer					
= System	Network A	udio Transmission	0m	-	
Record	tietw	ork Audio Receive	Dm .	-	
n User	Buzzer Setti	ng			
 Network 		Keypad e	Den :	-	
E Sensor					
				OK	Cancel

4. System

User can configurable DATE of system, check system information and set controller.



5. Recording

User can configure the recording parameter, Setting detail is same as system.

	Live	Beath	Setup	entreadion.	1	IED Remote Vi
Camera	Continues	us / Motion Record	ding Setting			
Display						
Sound	Size / FP	\$ / Quality	Activation			
System		0	6	12	18	2
Record	Time					
Generation		Nesoutor	n Fran	te Rate Quart	Autor	FPS
operation	CH1	352*240	H 15	• Highest	• or	4
 Continuous / 	012	352 * 240	* 15	• Hohest	- on -	1 11
Motion	06	352 * 240	* 15	+ Honest	+ of	Remain
Alam	CH4	352*240	* 15	+ Hohest	• or	d l
Pane	CHS	352*240	15	• Highest	+ on	i i
1 mart	CHIS	352*240	* 10	• Honest	+ or	4
Looker .	047	352*240	• 15	• Hohest	+ or	1
Network	CHE	352 * 240	*1 15	• Honest	• or	4
Sensor	CH9	352 * 240	* 15	• Hohest	+1 on	1
	CH10	362 * 240	15	• Hohest	• or	1
	CH11	352*240	* 15	• Highest	• on	1
	CH12	352*240	• 15	• Highest	=[on	1
	Chitth	352 * 245	with the	al Montest	wi on a	4

6. **User**

Allow to add user, select Authority level and Log out time



7. Network

User can check the system's network information and selectable speed level. But IP settings are not allowed to change on remote site.

Network IP only can set on system.

	Live .	Search	Setup	Intonution	WEB Remote Viewe
= Camera	IP Setup Sett	ing			
= Display		DHCP E			
= Sound	PA	00ress 192 198 0.9	17.		
= System	Subre	Mask 255 256 255	0		
Bacont	G	steway 192 158.0.1			
e History	DNS 1st	Server 192.158.0.1			
= User	ONS 2st	Server paso			
Network					
 Network 	RTSP Serve	e Port 1500			
E-mail	Web Serv	or Port 9000			
Sensor.					
	Max 7X	fipted ans2 Kbyte	2		
		DDHS On	1		

For email notification, user can input the SMTP server detail on below setup.

	Live	Search	Setup	Information	
H Camera	E-mail Settin	g			
n Display		Server			
Bound		Port 25			
s System			1997		
Record		Security OFF	*		
User					
Network	0-	User			
Network	10	From			
• E-mail					
a Sensor				OK I	Cancel

8. Sensor

Management can set all device option of Alarm in/out, buzzer out for event notification. (HDD EVENT, Alarm Input, Alarm output, Buzzer Out, Email notification option) All detail setup follow DVR system setup

	Line .	Dearch	Setup	entertation	WEB Remote Vie
a Canera	Alarm Output	Setting			
Display	Nat	Cut III CH	2		
a Sound	Operation Enable		-		
- System		fode Transparent	-		
- Record		T3DR Hegh	-		
- Uner		aton Saec	-		
- Network		Chesse 104			
- monthly a					
- perior	CHINE	-		Video Usa	
HOO Event	A			0	1
Alarm input	CH1	0		1.	1.
Allow Contract	CH2	0		E	E
· Alam Output	CHD	r:		C	0
Buzzer Out	014	C.		E	E
E-mail hotification	06			17	E
	CHE			E.	E
	CHT			r .	E.
	0.0			E	E.

12.6 INFORMATION

Check DVR model name and WEB version.



13 SMART PHONE CONNECTIONS

♣ I-PHONE

1. Select the Safari browser



2. Enter the IP address or URL to connect. And Click the [GO] button.



3. Enter the User name and Password then use can see the Image. (Default ADMIN / 1234)



Only allow to surveillance live view, not playback and other function.

Blackberry

1. Select the Web browser.



- 3. Enter the IP address or URL to connect.
- 4. And press the Enter button.



3. Enter the User name and Password then use can see the Image. (Default ADMIN / 1234)



The DVR is supplied with software to allow remote connections either on a direct LAN connection or over the Internet.

The remote client allows full live viewing of the DVR including control of PTZ cameras.

In addition, playback, remote setup, audio talkback, local backup and remote alarm triggering can all be achieved.