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DR4H/DR8H/DR16H DR4H-DVD/DR8H-DVD/DR16H-DVD

INSTRUCTION MANUAL

Before 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 Digital Video Recorder (DVR).

This DVR is produced using the most advanced GANZ digital recording 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 and step-by-step procedures for common DVR operations.

Please read this manual thoroughly before using your DVR in order to prevent possible malfunction due to operator error.



This manual applies to the following DIGIMASTER Series DVR models: DR4H / DR8H / DR16H.

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.

- GANZ 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.
- GANZ 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 has acquired international certifications, including CE (Europe) and FCC (USA).

This manual is written based on the 16 Channel DVR. The contents may change according to the number of channels and the types of exterior equipment.

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It is prohibited to transfer this manual via online media such as, but not limited to, the Internet.

It is also prohibited to post, distribute or translate this manual without permission from CBC.

CBC will not be held responsible if the DVR has been damaged as a result of improper handling by any user who is unaware of how to operate this product and 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 DVR 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 precautions to ensure user safety and prevention of property damage. Please read the information below thoroughly.

Warning and caution signs





Do not attempt to disassemble, repair or modify the system on your own. It is extremely dangerous due to high voltage running through the system.

 This may cause fire, electric shock or serious injuries.



Checkfor any danger signs such as a moistfloor. loosened or damaged power cable or unstable surface. If you encounter any problems, askyour dealer for assistance.

This may cause fire or electric shock.



Keep at least 15cm between the back of the system and the wall for the cables connected into the system. Otherwise, the cables may be bent, damaged or cut.

This may cause fire, electric shock, or injuries.



This may cause fire.



Install the system on a flat surface with sufficient airventilation. Do not place the system on elevated surface.

 This may cause system malfunction or serious injuries.



The power outlet must be placed on a ground, and the voltage range must be within 10% of the voltage rate. Do not use the same outlet with a hair dryer, iron, refrigerator or any heating appliances.

This may cause fire, heating and electric shock.



When the system's battery is depleted, you must replace it with the same or equivalent type of battery specified by the manufacturer. Depleted batteries should be discarded according to manufacturer's instructions.

This may cause an explosion.



If the system's HDD has exceeded its life span, you may not be able to recover any data stored inside the HDD. If the video on the system screen appears 'damaged' while playing a recording stored inside the system's HDD, it must be replaced with a new one. Ask for an engineer's assistance for HDD replacement from your dealer.

 CBC is not responsible for deleted data caused by user mishandling.

🚯 Warning

Power setup



Connect with AC115V if the AC selector appears as shown here.



Connect with AC230V if the AC selector appears as shown here,

▲ Caution

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.

 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 all instructions contained in this manual.
- 2) Keep a copy of these instructions for future reference.
- 3) Read all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- 7) Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, space heaters, stoves, or other devices 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 and third prong are safety features provided for your safety.

[NOTE: If the provided plug does not fit into the outlet, consult an electrician for replacement of the obsolete outlet.]

- 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 attachments or accessories that are 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 (if outlet is unprotected) during a lightning storm, 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 intended for indoor use and all input/output wiring is limited to the inside of a building.
- 16) The power socket or outlet shall be installed near the equipment and should be easily accessible.
- 17) CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

ONLY DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

NOTE: Maximum Operating Temperature: 40 ℃ USB Power Output: 5V DC (Maximum 500mA)

1. Device Specifications

Video Standard	NTSC/PAL			
Audio	Bi-Directional Audio			
Monitor Display	Real Time: 30ips (NTSC) or 25ips (PAL), per camera			
Covert Camera Operation	Programmable			
Event/Log Search	Up to 1,000,000 event log entries for user login/out, configuration changes,			
	remote access, connects/disconnects.			
Record Scheduling	Daily or Weekly; adjustable by specific hour of the day, per channel			
Remote Access	Live View, Search, Playback, Configuration; via web browser or client software			
Playback	Up to 16-channel simultaneous playback			
Pre/Post Alarm Buffers	Up to 5 seconds (Pre), 3 minutes (Post), programmable per camera			
VGA	1280x1024 (60Hz) (monitors with Multi Sync function only)			
High-Definition Video Output	HDMI (1920x1080)			
Activity Detection	20x12 grid (DR8/16H); Sensitivity Levels: 10 (1 lowest, 10 highest)			
Multitasking	Pentaplex			
Video Inputs	4, 8, 16 x 1Vp-p, CVBS, 75 ohms, BNC, looping outputs			
Monitor Outputs	1 x CVBS/S-VHS, VGA			
Spot Output	4 (DR16H) x 1Vp-p, CVBS, 75 ohms, BNC			
Audio Inputs	4 x line-in, mono, line level, unbalanced, RCA jack			
Audio Output	1 x line-out, mono, line level, unbalanced, RCA jack			
Resolution	352x240, 704x240, 704x480 (NTSC), 352x288, 704x288, 704x576 (PAL)			
Compression Standard	H.264			
Recording Speed	DR16H: 480/400fps @CIF, DR8H: 240/200fps @CIF, DR4H:120/100fps @CIF			
Image Size	3-5 Kbyte (352x240, 352x288), 5-10 Kbyte (704x240, 704x288)			
	6-16 Kbyte (704x480, 704x576)			
Hard Disk Drive Capacity	4 x HDD; no limit on HDD capacity			
Secondary Storage	USB default (USB memory stick, USB HDD, ODD), DVD/CD-RW (optional)			
Alarm Inputs	4, 8, 16 x TTL, programmable as NC/NO			
Alarm Outputs	4-channel: relay output; 8 and 16-channel: 8 / 16 x TTL + 4 relay outputs			
Archive/Snapshot File Formats	AVI, JPG, BMP			
Network Speed Control	8 levels (adjustable from 56Kbps ~ 8Mbps)			

1. Device Specifications (cont'd)

Pre-Alarm Recording	Up to 5 seconds, programmable per camera			
OSD Languages	English, Spanish, Portuguese, French, Russian, Polish, German, Italian			
Ethernet/LAN Network Interface	10/100-Base-TX, RJ-45			
Remote Function	Live View, Search, Playback, Configuration, Archiving			
	Support for CMS Software, Web R/A and Smart Phone			
Digital Watermark	Watermarked Video & Audio (for verification of data integrity & continuity)			
PTZ Control	RS-485 Serial interface (full duplex) (two wires, +/-)			
Supply Voltage	4-channel: 12VDC, 5A; 8 and 16-channel: 100VAC-240VAC, 60/50Hz			
Operating Temperature Range	5℃ to 50℃			
Housing Materials	Case Cover: Steel metal; Front Panel: Molded Plastic			
Dimensions (HxWxD)	4-channel : 36cm x 39cm x 7cm; 8 and 16-channel : 43cm x 46cm x 9cm			
Weight	4-channel : 3.8kgs; 8 and 16-channel : 7.3kgs			



The CE Marking is a Directive Conformity mark of the European Union (EU).

- Disposal of your old appliance
 1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
 2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
 3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
 4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

This device complies with Part 15 of the FCC Rules. Operation is subject to following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

2. Product Contents List

Please check to make sure that all of the product contents are present after opening the product packaging.

1 Basic Contents



② Optional Contents



Internal Hard Disk Drive



Internal DVD-RW Drive



USB Thumb Drive

3. System Organization



1. Front Panel (8 and 16-channel models)



- ① POWER : System Power On / Shutdown
- 2 DISPLAY : Switch Screen Division Modes (and Screen Rotation Mode)
- ③ SEQUENCE : Toggle Sequence Mode
- ④ PANIC : Trigger Panic Recording Mode and Panic Relay Output
- **⑤** ZOOM : Digital Zoom on Live View or Playback
- 6 LOCK : Toggle Front Panel Lock
- ⑦ ARCHIVE : Go to Archiving Menu
- 8 PTZ : Go to Camera PTZ Control Menu
- (9) SETUP : Go to Main Setup Menu
- 10 SEARCH : Go to Search Menu
- 1 USB PORT: USB Port(s) for either USB Mouse, USB Memory Stick, or USB HDD archiving devices.
- 2 RETURN : Cancel / Deselect / Return to Previous Screen
- (13) ENTER : Confirm / Select / Next Screen
- (4) LED Indicator : Indicates Present System Status. (POWER, REC, NETWORK)
- (5) Channel Selection Buttons (1 ~ 8 / 16) : Select Channel or Input Password Digits
- Directional / Navigation Buttons (UP, DOWN, LEFT, RIGHT, ENTER)
- Remote Controller Input Sensor (IR)
- EJECT : Eject CD-ROM (Optional)
- II: Pause Playback
- ► / ► ► : Iris Adjust (Open / Close) or Forward Play / Fast Forward
- JOG / SHUTTLE : Outer wheel variable REW or FF; Inner wheel scroll frame-by frame while PAUSED.
- HOLD : Hold Current JOG / SHUTTLE Position
 - If the Remote Control IR Sensor is blocked, the Remote Controller will NOT function properly.
 - When a button is pressed on the Front Panel or on the Remote Controller, the DVR will beep, unless this feature is disabled from the main menu: System Setup → Audio → Buzzer.

2. Rear Panel (8 and 16-channel models)



A. CAMERA INPUTS and LOOP OUTPUTS :

Connect up to 16 BNC camera inputs. 16 Hi-Z Loop outputs can be used for connection to other equipment.

B. COMPOSITE AND S-VIDEO MAIN MONITOR CONNECTIONS :

All main monitor outputs can be used at the same time, if more than one main monitor is required.

- C. SPOT MONITOR OUTPUTS : Up to 4 spot monitors can be connected and individually configured as necessary.
- D. ALARM INPUTS : Up to 16 alarm inputs can be connected and configured as high or low

inputs with common ground.

- E. ALARM OUTPUTS : Up to 16 alarm inputs can be connected and configured as high or low outputs with common ground.
- F. RELAY OUTPUTS : Up to 4 Relay outputs can be connected and configured as high or low outputs with common ground.
- G. RS-485 : Can connect to PTZ camera and controller by two RS-485 connectors.
- H. AUDIO INPUTS & OUTPUTS : Up to 4 audio inputs and one audio output can be connected as necessary.
- I. VIDEO SIGNAL SWITCH : Can change video input signal type between NTSC and PAL formats. USB PORT : Can connect a USB mouse or other USB device for archiving.
- J. HDMI : Can output high-definition video to any HDMI-capable monitor. VGA : Can output to any type of VGA monitor.
- K. RS-232 : Serial port (used for initial factory programming only).
 LAN : Connect to a hub, switch, or router with access to a Local Area Network (LAN) or the Internet.
- L. POWER : AC power inlet, to be used with provided AC power cable.

Tip

• During installation, please install unit while System Power is disconnected.

- When connecting one or more microphones to the audio input jack(s), please use with a microphone system or some other kind of amplification.
 - Without amplification, a line-level input from a microphone is too low to use.

3. Front Panel (4-channel model)



① CD/DVD-RW : CD/DVD-RW Device for Archiving.

- 2 Channel Selection Button : Select Channel (1 ~ 4) or Input Password Digits.
- ③ LED Indicator: Indicate Present System Status Information.

(PWR: System Power On/Off, REC: Record On/Off, ALARM: Alarm Sensor Status,

NET: Network Client Connection Status,)

- ④ Search Controller : Searching Recorded Data or Control Menu & PTZ / FOCUS.
- ⑤ HOLD : Hold current position of Jog / Shuttle wheel.
- 6 JOG : Navigate through video frame-by-frame, while in Pause.
- ⑦ Eject : Eject CD / DVD.
- ® DISPLAY : Switch Screen Division Mode (and Screen Rotation Mode).
- (9) SEARCH : Go to Search Menu.
- 10 SETUP : Go to System Menu.
- 1 PTZ / FOCUS : Go to Camera PTZ Control.
- 2 RETURN : Cancel / Deselect / Return to Previous Screen.
- ③ ENTER : Confirm / Select / Go to Next Screen.
- (14) Remote Controller IR Sensor
- IS USB Port: USB port for either USB Mouse, USB Memory Stick, or USB HDD archiving devices.

(
Tip	Power Button uses "Soft-Off" with Password to prevent accidental shutdown.
	Channel Selection Buttons can be used in most Screen Division modes.
	 If the IR Sensor is blocked, the Remote Controller will NOT work properly.
	• When any Front Panel Button is pressed, it is accompanied by a system beep.
	Depending on the model of CD/DVD-RW installed, the actual appearance of the
	DVR system may look different from what is pictured above.

4. Rear Panel (4-channel model)



- A. Video Inputs : Connect up to 4 BNC camera inputs.Loop Outs : 4 Hi-Z loop outs can be used for connection to other equipment.
- B. Main Monitor Out : BNC Main Monitor Output to A/V Monitor.
 Spot Monitor Out : BNC Spot Monitor Output to A/V Monitor.
- C. NTSC / PAL : Select NTSC or PAL Video Format.
- D. Audio Out : Mono, Line Level, Unbalanced, RCA Audio Output Jack. Audio In : Mono, Line Level, Unbalanced, RCA Audio Input Jacks.
- E. DVI OUT : DVI Video Main Monitor Output to Computer Monitor.
- F. Alarm / Relay / RS-485 : Connection interface for Alarm Sensor Inputs, Relay Outputs, & RS-485 PTZ.
- G. USB Port: use either USB Mouse, USB Memory Stick, or USB HDD archiving devices.
 Ethernet (TCP/IP) : RJ-45 10/100 Base Ethernet / LAN connector.
 DC Power Input : Connect to provided DC 12V Power Adapter.

Tip

• During installation, please install unit while System Power is disconnected.

- When connecting one or more microphones to the audio input jack(s), please use with a microphone system or some other kind of amplification.
- Without amplification, a line-level input from a microphone is too low to use.

SYSTEM CONFIGURATION – Remote Controller





If there are multiple DVRs stacked or mounted in a rack, each DVR must be assigned a unique ID number, so that each DVR can be controlled with a single remote controller, referencing each DVR by its own ID.

How to choose which ID to use on the remote controller:

- Press the ID button. The system will display 'INPUT ID'.
- Enter the digits of the unit ID, and then press the ENTER button. (The default unit ID is '01').
- To return back to normal control of the DVR, now press the **RETURN** button.
- Factory Default Setting: Input unit ID '255' and then press ENTER and RETURN.

CONNECT & POWER ON

- Connect up to 16 CAMERA INPUTS as necessary.
 The DVR also has LOOP OUTPUTS, so that your video signals can be looped to other equipment, if required.
 BNC Termination is automatically set by the DVR, depending on the connection type.
- Connect one or more monitors to the DVR using the COMPOSITE, VGA, S-VIDEO or HDMI connections.
- Connect power to the DVR, using the provided AC power cord or DC 12V Power Adapter (depending on model).
 The DVR will check for proper power connection and emits two beeps if system power test is OK.
- Press the **POWER BUTTON** on the front panel of the DVR to begin operation.

1 Disk is Found Internal Disk Size : 244GB External Disk Size : 0GB

- The DVR startup screen detects and checks the status of all internal hard drives, and the CD/DVD-RW drive.



After startup diagnostics are complete, the operator must login to the system. The default user name is 'ADMIN'.
Using the CHANNEL SELECTION buttons, key in the digits of the default password ('1234') and then press the ENTER button.



- After DVR startup, the system will show the default display of all 16 channels in a standard 4x4 Screen Division mode.

The status bar at the bottom of the screen shows the current Date/Time and the percentage of Hard Drive capacity used.
The title for each channel is shown.

 A red recording icon and the letter 'T' in the top right of each channel shows that the channel is recording in 'Timer' (Scheduled / Continuous) recording mode.

MENU CONTROL



All menus can be controlled from this 'Status Bar' with either the USB mouse or Front Panel buttons.

SCREEN DIVISION



Select the '**DISPLAY**' button and the screen division menu will appear. Select the screen type (1, 4, 6, 7, 8, 9, 13, 16-channel or sequence).

SEQUENCE MODE



(User can select a sequence as one of the options within the screen division menu.) Press the '**SEQ**' button. Each channel is shown full screen for an adjustable duration, before switching to the next channel.

To stop the sequence on a particular channel, press the 'SEQ' button again.

More complex sequences can be programmed through the 'DISPLAY' section of the setup menu.



ΡΤΖ

Ю РТZ

PTZ	×
CAM	CH1 🚔
PRESET	a
SET	бото
PARAMETER	OM + US + S + OK
V	
PTZ Paramete	r ×

PTZ Parameter	×		
ZOOM SPEED	5		
FOCUS SPEED	5		
IRIS SPEED	5		
P / T SPEED	5		
AUTO FOCUS	ON		
AUTO IRIS	ON		
ОК			

1) CAM: Select the Channel of the PTZ device which you are controlling.

- 2) Preset: Select the number of the preset you are working with (1 ~ 254).
- 3) Set: Sets the current PTZ position as the selected Preset number.
- 4) Goto: Tells the PTZ device to move to the position of the selected Preset.
- 5) Directional Arrows: moves the PTZ device in the direction specified.
- 6) Zoom / Focus / Iris: User can control each item with + or button.

7) Parameter: Press this button and another window will appear. User can select an item from the PTZ parameter menu, and edit the settings in order to fine-tune the speed of pan-tilt-zoom motions, or to enable advanced

features, such as Auto Focus and Auto Iris (only on supported PTZ devices).

DIGITAL ZOOM



Right-Click within Live View mode, and choose '**ZOOM**'. Or select the '**ZOOM**' function from the status bar.



While viewing a channel in full screen, the user can digitally zoom into a particular area of that channel by up to 8X. The small PIP window at the bottom-right shows the full image and the main display area shows the zoomed portion.

LOG SEARCH



User can see a live event log window, which shows each new event as it occurs. Click on an event within the live event log window to begin playback from the selected event. (This will only happen when the 'PREVIEW' option is selected from the live event log window.)



PANIC RECORDING



- This function button is used to toggle the Panic Recording mode On/Off.
- When Panic Recording mode is enabled, you will see a red recording icon with "P" for Panic.
- When Panic Recording mode is enabled, the system will record all channels, as per the Panic Recording settings.
- All resolution and image rate settings related to Panic Recording are configured within the Record menu.

QUICK MENU



Freeze On	
PTZ	
Zoom	
Playback	►
Record Start	

You may access the 'Quick Menu' by right-clicking on any channel which you would like to control.

- 1. Freeze On/Off: User can freeze the live display of any channel. While the other channels will continue to show live view video, the frozen channel display is stopped. Click once more to return to live view video.
- 2. PTZ

Please refer to "PTZ" menu of Page 23.

3. Zoom

Please refer to "ZOOM" menu of Page 23.

4. Instant Playback



User can instantly playback video from a selected time (10, 20, 30 seconds or 1 minute) ago.



- In the case of selecting the "go to" option, another menu will appear. After entering the desired Date / Time, press "OK" to begin playback from there.
 - 5. Record Start (Stop) Please refer to "Panic Record" menu of Page 23.



Click the 'MENU' button and choose the 'SYSTEM SETUP' menu.



MAIN		
CAMERA DISPLAY SOUND SOUND SYSTEM USER VISER EVENT / SENSOR DISK MANAGEMENT	CAMERA SETUP COLOR SETUP PTZ SETUP MOTION SENSOR	

- To navigate around any items in the setup menu, use the CURSOR KEYS and the 'ENTER' and 'RETURN' buttons.

- In general, the 'ENTER' button is used to select a particular field to edit, and then is pressed again to confirm changes.
- The '**RETURN**' button is used to cancel or deselect, or to step back one screen while navigating the menu system.

- To configure all system settings, highlight 'SYSTEM SETUP' and press 'ENTER'.

CAMERA

From the 'System Setup' menu, click on the 'CAMERA' submenu.

CAMERA : CAMERA SETUP

Sa CAME	RA		>	▲ ✿ # 🗄 🛎 🖻
CAMERA				
	-	TITLE	COVERT	AUDIO
	CH 1	CH 1	OFF 🚔	CH 1 📑
SETUP	CH 2	CH 2	OFF 🚔	CH 1 📑
	CH 3	CH 3	OFF 🚔	CH 1 🚔
PTZ	CH 4	CH 4	OFF 😭	CH 1 📑
SETUP	CH 5	CH 5	OFF 📑	OFF 😭
	CH 6	CH 6	OFF 🚔	OFF 🚔
MOTION	CH 7	CH 7	OFF 🚔	OFF 😝
SENSOR	CH 8	CH 8	OFF 🚔	OFF 🚔
				🔽 DOWN 🖾 UP



Left-click on the **CAMERA SETUP** menu. Double-click on the 'TITLE' field to change the camera name. Click the 'COVERT' or 'AUDIO' fields for the desired channel. Then, use the **button** to modify each value.

TITLE: For each camera, a title of up to 11 characters can be set, using the virtual keyboard.

COVERT: When it is set to ON, the camera image is not displayed in live display but continues to be recorded. **AUDIO**: Determines the audio recording channel which will be paired with each video channel.

CAMERA : COLOR SETUP

🔊 САМЕН	RA)	🖕 💻 🥠	◊ # 문 ● =
CAMERA					
ل	*	BRIGHTNESS	CONTRAST	TINT	COLOR
COLOR	CH 1	50	50	50	50
SETUP	CH 2	50	50	50	50
\square	CH 3	50	50	50	50
PTZ	CH 4	50	50	50	50
SETUP	CH 5	50	50	50	50
	CH 6	50	50	50	50
MOTION	CH 7	50	50	50	50
SENSOR	CH 8	50	50	50	50
					🔽 DOWN 🔼 UP



Click on any field to adjust its value. Modify each value using the **button**.

While modifying any value within the color setup, the selected channel will be displayed full screen.

BRIGHTNESS, CONTRAST, TINT and COLOR can be modified as necessary.

To modify a different channel, highlight the CAMERA field, and choose the desired channel.

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

NOTE: These settings will not change the properties of the recorded image, only what is being displayed on screen.





Modify each value using the solution.

The selected channel is displayed in full screen mode. BRIGHTNESS, CONTRAST, TINT and COLOR can be changed as necessary. To modify a different channel, highlight the CAMERA field, and choose the desired channel. Press **RETURN** when all changes are completed.

CAMERA : PTZ SETUP

STA CAMEI	RA			۵	▲ ۞ # 묘 ● ■
CAMERA					
		ADDRESS	PROTOCOL	BAUD RATE	
	CH 1	255 🚔	PELCO D 🚔	9600 🚔	DETAIL PRESET
SETUP	CH 2	255 🚔	PELCO D 🚔	9600 🚔	DETAIL PRESET
	CH 3	255 🚔	PELCO D 景	9600 景	DETAIL PRESET
PTZ	CH 4	255 🚔	PELCO D 🚔	9600 🚔	DETAIL PRESET
SETUP	CH 5	255 🚔	PELCO D 🚔	9600 🚔	DETAIL PRESET
	CH 6	255 🚔	PELCO D 景	9600 景	DETAIL PRESET
MOTION	CH 7	255 🚔	PELCO D 🚔	9600 😭	DETAIL PRESET
SENSOR	CH 8	255 🚔	PELCO D 🚔	9600 🚔	DETAIL PRESET
				🔽 DOWN 🔼 UP	



Click the **PTZ SETUP** menu. Click on any field to modify its value.

Change the value by the **Section** 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.
DETAIL : Detail setting for PTZ device. (*Refer to the next page.*)
PRESET : Tour setting for PTZ device. (*Refer to the next page.*)

DETAIL

PTZ Property ×				
CHANNEL NO.	1			
PTZ DRIVER	PELCO-D			
AUTO FOCUS	ON 🚔			
AUTO IRIS	ON 🚔			
P/T SPEED	5 🚔			
ZOOM SPEED	5 🚔			
FOCUS SPEED	5 🚔			
IRIS SPEED	5 🚔			
ОК				

Advanced PTZ properties can be adjusted for each channel using the 'DETAIL' button.

Some settings, such as Auto Focus, may not be compatible with all PTZ devices. If this is the case, changing this value will have no effect on PTZ control.

PRESET

TOUR SETTING									
CH 1 🖨 MODE AUTO 🖨									
STEP	PRESET	NO.	DWELL	TIME	STEP	PRESET	10.	DWELL	TIME
1	1	÷	1	÷	9	NONE	÷	1	÷
2	2	÷	3	-	10	NONE	-	3	÷
3	3	÷	4	÷	11	NONE	÷	4	÷
4	9	-	1	-	12	NONE	-	6	÷
5	NONE	÷	5	-	13	NONE	÷	5	÷
6	NONE	÷	6	-	14	13	÷	6	-
7	NONE	÷	9	÷	15	NONE	÷	15	÷
8	NONE	-	15	-	16	NONE	-	15	÷
						ок		CANC	EL

Click the '**PRESET**' button and set the MODE to 'AUTO' in order to use the TOUR function.

First, you must choose the channel of the PTZ device which you are configuring the tour for.

Select a valid PRESET number for each step of the tour.

Select the DWELL TIME, which is the amount of time that the PTZ will wait before moving to the next preset.

CAMERA : MOTION SENSOR

🔊 САМ	ERA		
CAMERA SETUP			
	2	SENSITIVITY	
COLOR	CH 1	10	AREA SETUP
SETUP	CH 2	10	AREA SETUP
	CH 3	10	AREA SETUP
PTZ	CH 4	10	AREA SETUP
SETUP	CH 5	10	AREA SETUP
Contractory and	CH 6	10	AREA SETUP
MOTION	CH 7	10	AREA SETUP
SENSOR	CH 8	10	AREA SETUP
			DOWN 🖾 UP



Click on the **MOTION SENSOR** menu. Click on a SENSITIVITY value for the desired channel.

Then use the sensitivity.

SENSITIVITY : Determines the degree of motion required before recording is activated.

(1: Least Sensitive to Motion - 10: Most Sensitive to Motion)



Click the **AREA SETUP** button to edit the motion detection area.

AREA SETUP : Choose this option to define which areas of the image are sensitive to motion.

Click on individual squares to select or deselect each square.

Click-and-drag to select or deselect entire areas of the grid.

To quickly select or deselect the entire grid at once, right-click and choose either 'SELECT ALL' or 'DESELECT ALL'.

- Red outlined grid area: Selected area.
- White outlined grid area: Unselected area.
- Green outlined grid square: Current position of mouse cursor.

DISPLAY

From the 'System Setup' menu, click on the 'DISPLAY' submenu.

DISPLAY - OSD

DISPLA	AY	🖈 📮) 🛦 🗘 🖊 🖂 🤅	
OSD				
	STATUS BAR TIMEOUT		10 SEC	÷
	CAMERA TITLE		ON	÷
MONITOR	RECORDING MODE ICON		ON	A
	BORDER		ON	A
SEQUENCE	BORDER COLOR		GRAY	A
SEQUENCE	MOTION SENSOR DISPLAY		ON	÷.
	MOTION COLOR		BLUE	÷
SPOT OUT	LANGUAGE		ENGLISH	÷



Click on the '**OSD**' submenu and then click on any field. Then, click on the **b**utton to modify the value.

STATUS BAR : Toggles the status bar at the bottom of screen in Live View mode ON / OFF.

CAMERA TITLE : Determines whether the camera title is displayed for each channel.

RECORDING MODE ICON : Toggles the DVR recording status icons shown at the top right of each channel window.

BORDER : Determines whether there is a border grid shown around each channel in each Screen Division mode.

BORDER COLOR : If the border grid is set to ON, the user can choose the color of the grid.

MENU TRANSPARENCY : During setup, Live View video can be seen through a partially-transparent menu screen.

Changing this value determines whether the live view is more (higher value) or less (lower value) visible.

MOTION SENSOR DISPLAY : This feature can be used to determine which areas within a channel are detecting motion in real-time. The motion sensor display can be used to troubleshoot false motion activations.

OFF - normal display mode.

ON - areas where motion is detected are highlighted with colored blocks.

MOTION COLOR: The color of the blocks displayed when MOTION SENSOR DISPLAY is set to ON.

LANGUAGE : Determines the DVR Operating System language.

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

Use the CURSOR KEYS to navigate to the desired option.

Press 'ENTER' to select the option, and use the CURSOR KEYS to change the setting.

Press 'ENTER' to confirm the setting or 'RETURN' to cancel.

DISPLAY - MONITOR

DISPLAY 🔊 🖗 📮 🛦 🔅 🖊 🖶 🖿				
OSD				
	SEQUENCE DWELL	5 SEC 🛛 🚔		
[SPOT DWELL	5 SEC 🚔		
MONITOR	DE-INTERLACE MODE	ON 🚔		
	ALARM POP-UP MODE	OFF 🚔		
SEQUENCE	ALARM POP-UP DWELL	5 SEC 🚔		
SEQUENCE	MOTION POP-UP MODE	OFF 🚔		
	MOTION POP-UP DWELL	5 SEC 🚔		
SPOT OUT				



Click the **MONITOR** menu, then click on any field. Use the **Solution** button to modify the value.

SEQUENCE DWELL : Th	e amount of time that each screen is displayed in a sequence.
SPOT-OUT DWELL : The	amount of time that each screen is displayed on each of the spot monitor outputs.
DE-INTERLACE MODE :	When recording any channels in D1 resolution (704 x 480), this may be set to ON,
	to prevent interlaced motion distortion during playback.
ALARM POP-UP MODE :	When enabled, an alarm input will cause the associated channel to display full screen.
ALARM POP-UP DWELL :	Determines the amount of time a full screen popup is displayed after an alarm input.
	If the alarm condition continues, the pop-up screen will be displayed constantly.
MOTION POP-UP MODE :	When enabled, 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 press RETURN to cancel.

NOTE: When display modes are changed, the DVR must be rebooted in order for changes to take effect.

DISPLAY - SEQUENCE





Click the 'SEQUENCE' menu.

- When the 'SEQ' button is pressed, the default sequence will cycle through all 16 channels, one by one, in full screen.

- Sequence setup allows the user to define a custom sequence pattern, using either full screen or mixed multi-screen views, which can be comprised of any number of channels in any order.

- To add a new sequence, highlight 'ADD' and press 'ENTER'.





Click the 'ADD' button to add a new sequence.

- Sequence Title is highlighted. Press '**ENTER**' to bring up the virtual keyboard, and key in a name for the new sequence. Click on the '**ACTIVATION**' field, and click the **button** to turn the sequence activation ON. Select '**SAVE**'. Then, the menu pictured will appear.







Click 'ADD'. The "Sequence Setup" submenu appears.

- Determine the Screen Division mode under the "VIEW TYPE" section.
- Assign the desired channel under the "CONFIGURE" section.
- When all sequence settings have been entered correctly, click 'CONFIRM'.
- To add an additional mode, click 'ADD' continuously. After finishing the setup, click 'CLOSE'.
- To modify the current pattern, double click it. The 'Sequence Setup" window will appear again.

DISPL	AY		▶ 🗖 🛦 ۞ 🗸 🗄 🖷 🖻
OSD MONITOR		LIST DEFAULT	CREATED BY ADMIN
SEQUENCE			
SPOT OUT			
		CANCEL ADD	APPLY CLOSE

- The new sequence has now been saved, and can be started by pressing the 'SEQ' button while in Live View mode.

DISPLAY - SPOT OUT





Click on the 'SPOT-OUT' menu.

Each DVR has up to 4 SPOT MONITOR OUTPUTS (depending on model).

Each spot monitor displays a full screen sequence of particular channels, depending on the settings within this menu. For each spot monitor, the operator can decide which channels are to be displayed in the sequence.

By default, each Spot Monitor output is set to run a sequence of all 16 channels.

SPOT TITLE: Input the title of each spot monitor. ACTIVATION: Toggle each spot monitor ON/OFF.



- Click 'MODIFY'. (Below is default setup)

- To modify the current display, double-click the display. Then 'Spot Sequence Setup" window will appear.

Setup method is similar to the Sequence setup performed earlier (can only use single or quad mode for spot output).

- To add an additional display, click 'ADD'.



SOUND

From the 'System Setup' menu, click on the 'SOUND' menu.

SOUND - AUDIO

🧕 SOUNI		Þ 💻 👍	⇔ # ⊟	•
AUDIO			ON	1
BUZZER	NETWORK AUDIO TRANSMISSION NETWORK AUDIO RECEIVE		ON	AN AN



Click on the '**AUDIO**' menu, and click on any field. Use the button to modify each value.

LIVE AUDIO : When enabled, the selected audio channel can be monitored from the AUDIO OUTPUT. AUDIO MONITORING CHANNEL : Specify which one of the 4 AUDIO INPUTS is routed to the AUDIO OUTPUT. NETWORK AUDIO TX : When enabled, live and playback audio is transmitted to a remote PC connection. NETWORK AUDIO RX : When enabled, allows a remote PC connection to send audio back to the DVR.

SOUND - BUZZER

🧕 soun	D	🏞 🗏 🔌 🗘 🛦	
AUDIO	KEYPAD		
BUZZER)		



Click on the **BUZZER** menu, and click on any field. Use the button to modify each value.

KEYPAD: When enabled, each front panel button keypress is confirmed by a system beep.

REMOCON: When enabled, each button pressed on the handheld IR remote is confirmed by a system beep.
SYSTEM

From the 'System Setup' menu, click the SYSTEM menu.

SYSTEM - DATE / TIME

SYSTE	М	(*) 🖉 🛦 😚 🖊 🕁 🖴 📼
DATE / TIME		
	DATE TIME	2009/04/03 21:19:43 🚔
SYSTEM	DATE FORMAT	YYYY / MM / DD 🛛 🚔
MANAGEMENT	TIME FORMAT	24 HOUR
CONTROL	NETWORK TIME SERVER SETUP	POOL.NTP.ORG
DEVICE		SYNC.
	TIME ZONE SETUP	D.S.T
	Asia/Seoul	OFF 🚔



Click the **DATE / TIME** menu, and click on any field. Use the button to modify any value.

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

DATE FORMAT : Determines the format in which the date is displayed. (MM / DD / YYYY)

TIME FORMAT : Determines how the time is displayed. (AM/PM or 24-hour)

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 enabled, the DVR will automatically adjust for daylight savings time changes in the spring and autumn.

SYSTEM-SYSTEM MANAGEMENT

SYSTE	м		
	SYSTEM INFORMATION	INFO	
SYSTEM	SYSTEM NAME	SYS	TEM ID
MANAGEMENT	F/W UPGRADE	UPGRADE	
	FACTORY DEFAULT	LOAD	
DEVICE	SYSTEM DATA	SAVE	LOAD
	PASSWORD	01	F 🖨
	PASSWORD EXPIRED	1 MO	ИТН 😂

SYSTEM INFORMATION		
S/W Version	0.0.M.20090324_1800	
H/W Version	HARDWARE ID	
Video Signal Type	PAL	
Disk Capacity	244 GB	
IP Address	192.168.100.85	
MAC Address	00000000000	
DDNS Domain Name DVRLINK.NET		
Net Client Port	6400	
Web Server Port	8080	



H/W version: Shows the hardware version of the DVR.

- **VIDEO SIGNAL TYPE:** The DVR automatically switches between PAL and NTSC depending on the video format of the Channel 1 input signal at the time of power on.
- **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.
- **IP ADDRESS:** Shows either the manual IP address entered in the '**NETWORK**' menu, or the automatic IP address assigned by a DHCP server, if enabled.
- **MAC ADDRESS:** Shows the MAC (Media Access Control) address of the DVR. It is a unique identifier no other network device has the same MAC address.

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

NET CLIENT 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 : This field is used so that notification e-mails can be identified by system name.



Click on the 'SYSTEM MANAGEMENT' menu.

F/W UPDATE : Firmware updates may be released periodically to enhance system performance and add extra features. The user can upgrade the DVR firmware locally, using a USB memory stick.

Firmware Upgrade ×	
SELECT DEVICE	
NO DEVICE 🚔	
F/W LIST	
	I
▼	
UPGRADE CANCEL	

Select the Device where the Firmware Update files are located. After selecting the F/W version from F/W list, press '**UPGRADE**'. This will start the Firmware Update process.

- **FACTORY DEFAULT** : If settings have been changed which cause erratic behavior, the factory default configuration can be reloaded.
- SYSTEM DATA : The system configuration can be saved to a USB memory stick. At any time, it 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. All information is saved apart from network settings and system name.

PASSWORD: Determines whether the system must be used every time when entering the menu system.

PASSWORD EXPIRED: Determines the amount of time before the system password expires.

SYSTEM - CONTROL DEVICE





Click on the 'CONTROL DEVICE' menu.

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

SYSTEM ID: If more than one DVR is connected on the same RS-485 bus, each one must have a unique ID. *Note:* If more than one DVR is being used, each DVR must have a unique ID to use the Handheld IR Remote Controller.

PROTOCOL: Must be set to match the Protocol of the Control Device. **BAUD RATE:** Must be set to match the Baud Rate of the Control Device.

USER

From the 'System Setup' menu, click on the 'USER' menu.

USER - USER MANAGEMENT

🤗 USER			ې 🕁 🔈 🖷 🕈	2 🗕 🖻
USER				
	USER ID	GROUP	E - MAIL	⊠ _ŷ
USER	ADMIN	ADMIN		
AUTHORITY				
LOG OUT				

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

Within this menu, you have the ability to add new users, or modify the details for existing users. To modify user details, click or highlight the user with the green cursor square, and press '**ENTER**'. The maximum number of users that can be created is 8.

Edit	×
USER ID	ADMIN
GROUP	ADMIN
E-MAIL E-MAIL NOTI.	OFF 🚔
ОК	CANCEL



To edit a user account, double-click on the user name. After changing, click '**OK**' to confirm changes.

USER ID : Edit the User ID using the virtual keyboard. (maximum of 10 characters)
PASSWORD : Change the password using the virtual keyboard. (maximum of 4 characters)
GROUP : Users can be assigned to one of three groups - ADMIN, MANAGER or USER (*see User Authority setup*).
E-MAIL : Enter the user's e-mail address if e-mail notification is required. (maximum of 64 characters)
E-MAIL NOTIFICATION : Enable or disable e-mail notification for the specified user.

NOTE: For security reasons, it is recommended that the ADMIN user password be changed after installing the DVR.

USER - USER AUTHORITY

🤗 USER		به آ	9 🛦 🗘 🚢 🖬 🖷
USER MANAGEMENT		MANAGER	USER
LISER	SETUP		
AUTHORITY	PTZ		
	SEARCH		
	ARCHIVING		
200 001	REMOTE AGENT		
		CANCEL A	IPPLY CLOSE

User can configure the specific authority and permissions for the MANAGER and USER groups. To confirm changes, click the '**APPLY**' button after selecting each of the desired items.

NOTE: Any user can be deleted except the default '**ADMIN**' user account.



USER - LOG OUT

AUTO LOGOUT: Determines whether a logged-in user is automatically logged-out of the menu.

DURATION: Determines the amount of time before a logged-in user is automatically logged-out of the menu.

NETWORK

From the 'System Setup' menu, click on the 'NETWORK' menu.

NETWORK- IP SETUP

NETV	VORK	> ■ ▲ ♀ ₽ ■ =
IP SETUP		
<u></u>	DHCP	
DDNS	WEB SERVICE	
	IP ADDRESS	0.0.0.0
E MAII	GATEWAY	0.0.0.0
C-WAIL	SUBNET MASK	0.0.0.0
	1ST DNS SERVER	0.0.0.0
	2ND DNS SERVER	0.0.0.0
		AUTO DODT OFFICTE DODT TEST
	RTSP SERVICE PORT	AUTO PORT DELETE PORT PORT TEST
	WEB SERVER PORT	AUTO PORT DELETE PORT
	ALIAS	
	MAX TX SPEED	8192 KBPS 🚔
		CANCEL APPLY CLOSE



Click on the 'IP SETUP' menu.

DHCP : When enabled, the DVR will obtain an IP address automatically from a router or DHCP server, upon reboot.
WEB SERVICE : When enabled, allows remote connections using Internet Explorer or other compatible web browsers.
IP ADDRESS : If DHCP is not being used, the IP address can be manually set by the user.
GATEWAY : If DHCP is not being used, the gateway IP address can be manually set by the user.
SUBNET MASK: If DHCP is not being used, the subnet mask can be manually set by the user.
1ST DNS SERVER : If DHCP is not being used, the first DNS server can be manually set by the user.
2ND DNS SERVER : If DHCP is not being used, the second DNS server can be manually set by the user.
RTSP SERVICE PORT : If the connected Router supports UPnP (Universal Plug and Play) functionality, when you click

'AUTO PORT', the port forwarding is automatically configured.

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

ALIAS : When you enter the DDNS HOST NAME within DDNS setup (see next page), you can see the DDNS Information, for example: http://1234.dvrlink.net:8080

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

NETWORK-DDNS

🐌 NETWO	RK	>> ■ ▲ Q # = =
IP SETUP		
DDNS	DDN9 SERVER	TEST
E - MAIL	DDNS HOST NAME	00115ff00213 CHECK

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

(This is commonly used if a particular broadband connection does not have a Static IP address.)

CAUTION:

To use the DDNS function, the user must configure port forwarding.

- a. Default WEB SERVICE PORT : 8080
- b. Default RTSP SERVICE PORT : 554

The Default DDNS Host Name is the Mac Address of the DVR, so the user can connect through two different ways:

(Mac Address or Custom DDNS Host Name)

a. 00115ff00213.dvrlink.net

b(1234,)vrlink.neet (user can choose any DDNS Host Name)

🕘 NETWO	DRK	⇒ 🖳 🔌 🖓 🖉 🚍 🛋
ſ		
IP SETUP		
	SERVER	
0000	PORT	25
DUNS	SECURITY	OFF 📑
E - MAII	USER	
	PASSWORD	
	FROM	
	TEST E-MAIL	
		TEST

NETWORK - E-MAIL

Click on the 'E-MAIL' submenu.

SERVER : The SMTP outgoing e-mail server that will be used to send e-mail notifications.

PORT : The outbound e-mail service port number.

SECURITY : Turn OFF if the SERVER does not require a username and password for SMTP authorization.

USER : Enter the user name for the account which will be sending e-mail messages from the SMTP server. **PASSWORD** : If SECURITY is set to ON, enter the password here.

TEST E-MAIL : Test the configuration of the outgoing SMTP mail server.

EVENT / SENSOR

From the 'System Setup' menu, click on the 'EVENT / SENSOR' menu.

EVENT / SENSOR - HDD EVENT

💿 EVENT / SENSOR 🔶 🖗 🖷 🖕 🖛				
HDD				
	SAMRT ALARM	ON 🗮		
ALARM	CHECK INTERVAL	1 HOUR 🚔		
INPUT	DISK FULL EVENT	OFF 📑		
ALARM OUTPUT				
BUZZER OUT				
E - MAIL NOTIFICATION				



Click on the '**HDD EVENT**' menu, and choose any field. . Use the **set the button** to modify the value.

The DVR will continually monitor the health of the hard drives in the system and detect problems that may be developing. **SMART ALARM:** Enables S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) hard disk monitoring. **CHECK INTERVAL:** Frequency of testing.

DISK FULL EVENT: Determines whether a 'Disk Full' condition would result in a HDD event.

EVENT / SENSOR - ALARM INPUT

💽 EVENT / SENSOR 🔊 👂 🖷 🖕					
HDD					
	- 🗭 -	OPERATION	TYPE		TEXT
ALARM	CH 1	ENABLE	N/O	÷	ALARM 1
INPUT	CH 2	ENABLE	N/O	÷	ALARM 2
	CH 3	ENABLE	N/O	÷	ALARM 3
ALARM	CH 4	ENABLE	N/O	÷	ALARM 4
OUTPUT					
BUZZER OUT					
E - MAIL NOTIFICATION					



Click on the 'ALARM INPUT' menu, and choose any field. Use the button to modify the value.

The menu will determine the behavior of each of the 16 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

🔞 EVENT / SENSOR 🔅 🛎 🖛 🖛									
HDD EVENT	ALARM	OUT	1 LATCHED	4 1 4 1	OPERATION DURATION	ENABLE			
ALARM	TYPE	ТҮРЕ		A P	HDD EVENT	OFF 🚔			
INPUT		AL	ARM	VIDEO LOSS		MOTION			
	CH 1								
	CH 2								
	CH 3								
DUTTED	CH 4								
OUT	CH 5								
	CH 6								
E - MAIL	CH 7	CH 7 🗆							
NOTIFICATION	CH 8								
						🔽 DOWN 🔼 UP			



Click on the **ALARM OUTPUT** menu, and click on a field. Use the **button** to modify the value.

This menu will determine the behavior and actions that will trigger each of the 16 alarm outputs.

Behavior settings

ALARM OUT : Choose which alarm output to configure. (1~16 and R1~R4)

OPERATION : The selected alarm output can be enabled or disabled.

MODE : Can be either set as '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 the trigger).

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

TYPE : Can be set to high (0V to +5V when activated) or low (+5V to 0V when activated).

HDD EVENT : Determines whether a hard drive event will trigger an alarm output.

Action settings

ALARM : Determines whether the specific channel alarm input 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.

NOTE: Remember to select 'APPLY' and press 'ENTER' to save all settings before exiting these menus.

EVENT / SENSOR - BUZZER OUT

🔘 EVENI	/SENS	OR	۵ ۵ ۵ 🖈 🗐 🆘						
HDD EVENT	OPERATIO	ON ENABLE TRANSPARI	HDD EVENT	OFF SEC					
ALARM INPUT		ALARM	VIDEO LOSS	MOTION					
	CH 1								
	CH 2								
ALARM OUTPUT	CH 3								
DUZZED	CH 4								
OUT	CH 5								
<u> </u>	CH 6								
E - MAIL	CH 7								
NOTIFICATION	CH 8								
				🔽 DOWN 🖾 UP					



Click on the **BUZZER OUTPUT** menu, and click on a field. Use the **button** to modify the value.

This menu will 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 will activate the internal buzzer.

MODE : Can be set as 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 will continue to sound after it has been triggered.

Action settings

ALARM : Determines whether alarm inputs will activate the internal buzzer.

VIDEO LOSS : Determines whether video loss on any of the selected channels will sound the internal buzzer.

MOTION : Determines whether motion detection on any of the selected channels will sound the internal buzzer.

NOTE: Remember to select '**APPLY**' and press '**ENTER**' to save all settings before exiting these menus.

EVENT / SENSOR - E-MAIL NOTIFICATION

🔘 EVENT / SENSOR				P ■ ▲ Q ▲ □						
HDD EVENT	NOTIFIC HDD EV	CATION /ENT	ON ON	4Þ 4>	SETUP CHANC BOOTING EVE	BE ON NT ON				
ALARM INPUT	*	AL	ARM	VI	DEO LOSS	MOTION				
	CH 1									
	CH 2									
001101	CH 3									
DU77ED	CH 4									
OUT	CH 5									
	CH 6									
E - MAII	CH 7									
NOTIFICATION	CH 8									
	FREQU	ENCY	5 MIN	÷		🔽 DOWN 🖾 UP				



Click on the **EMAIL NOTIFICATION** menu, and click on a field. Use the **button** to modify the value.

This menu will determine the behavior and actions that will send an e-mail notification to a remote user.

Behavior settings

NOTIFICATION : E-mail notification can be enabled or disabled.

SETUP CHANGE: Determines whether a change to the system configuration would cause an e-mail to be sent.

HDD EVENT : Determine whether a hard drive event would cause an e-mail to be sent.

BOOTING EVENT: Determines whether a booting event would cause an e-mail to be sent.

Action settings

ALARM : Determine whether alarm inputs will cause an e-mail to be sent.

VIDEO LOSS : Determine whether video loss on any of the selected channels will cause an e-mail to be sent.

MOTION : Determine whether motion detection on any of the selected channels will cause an e-mail to be sent.

FREQUENCY : Minimum period of time between sending e-mail notifications (max. 60 minutes).

NOTE: E-mail Notification settings must also be configured within the 'MAIL' and 'USER MANAGEMENT' menus.

DISK MANAGEMENT





Click on the **DISK MANAGEMENT** menu.

To manage the internal hard drives, from the 'System Setup' menu, 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 the following time periods: 12 hours, 1, 2, 3, 4, 5, 6 days, 1, 2, 3 weeks or 1, 2 months. Once the DVR has reached the recording time limit, the system will start to overwrite the earliest recorded footage.

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

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

- NOTE: When the RECORD TIME LIMIT is set, the percentage of HDD used shown in live display mode may never reach 99%. For example, if the total HDD capacity of the DVR allows for a recording time of 4 days under normal operation, if the RECORD TIME LIMIT is set to only 2 days, the percentage of HDD used would never exceed 50%.
- NOTE: When a RECORD TIME LIMIT is set, the OVERWRITE option cannot be changed.







From the Main Menu, click on the '**RECORD**' menu.

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

RECORDING OPERATIONS

RECORDING									
	SCHEDULE MODE	DAILY	÷						
CONTINUOUS /	PRE EVENT RECORDIGN TIME	5 SEC	÷						
MOTION	POST EVENT RECORDING TIME	5 SEC	÷.						
PANIC RECORDING									



Click on the '**RECORDING OPERATIONS**' menu. Click on any field, and use the **button to modify the value**.

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).

- **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.)

CONTINUOUS / MOTION RECORDING SETUP

🛞 RECOF	RDING				
RECORDING		QUALITY		40	
CONTINUOUS /	TIME				
MOTION RECORDING	CH 1	SIZE 352 X 288	FPS 25	QUALITY	
ALARM	CH 2 CH 3	352 X 288 352 X 288	25	HIGHEST	ON
DANIC	CH 5 CH 6	352 X 288 352 X 288 352 X 288	25	HIGHEST	ON ON ON
RECORDING	CH 7 CH 8	352 X 288 352 X 288	25 25	HIGHEST HIGHEST	ON ON
	CH 9 CH 10	352 X 288 352 X 288	25 25	HIGHEST HIGHEST	ON ON
	CH 11 CH 12	352 X 288 352 X 288	25 25	HIGHEST	ON ON
	CH 13 CH 14	352 X 288 352 X 288	25	HIGHEST	ON ON
	CH 15 CH 16	352 X 288	25	HIGHEST	ON
l			CAN	APPL	Y CLOSE



Click on the 'CONTINUOUS / MOTION RECORDING' menu.

This menu allows the operator to configure continuous and motion-activated recording, based on a schedule.

There are 2 sections to this menu:

SIZE / IPS / QUALITY:: Recording settings for each channel can be defined across a 24-hour period, in blocks (for example between 09:00 and 18:00) or by each individual hour. Note that when SCHEDULE MODE is set to WEEKLY, each day of the week can be individually configured.

SCHEDULE: This section determines at what times the DVR will record and whether it is set to continuous or motion.

SIZE / IPS / QUALITY

🛞 RECOR	RDING				
RECORDING	SIZE/FPS/	QUALITY	ACTIVATION		
OPERATIONS	SUN 🖨 🐧		6 1	2 18	24
	TIME				
MOTION	>	SIZE	FPS	QUALITY	AUDIO
RECORDING	CH 1	352 X 288	25	HIGHEST	ON
	CH 2	352 X 288	25	HIGHEST	ON
ALARM RECORDING	CH 3	352 X 288	25	HIGHEST	ON
	CH 4	352 X 288	25	HIGHEST	ON
	CH 5	352 X 288	25	HIGHEST	ON
PANIC	CH 6	352 X 288	25	HIGHEST	ON
RECORDING	CH 7	352 X 288	25	HIGHEST	ON
	CH 8	352 X 288	25	HIGHEST	ON
	CH 9	352 X 288	25	HIGHEST	ON
	CH 10	352 X 288	25	HIGHEST	ON
	CH 11	352 X 288	25	HIGHEST	ON
	CH 12	352 X 288	25	HIGHEST	ON
	CH 13	352 X 288	25	HIGHEST	ON
	CH 14	352 X 288	25	HIGHEST	ON
	CH 15	352 X 288	25	HIGHEST	ON
	CH 16	352 X 288	25	HIGHEST	ON
l l			CANC	CEL APPLY	CLOSE



Click on the 'SIZE / IPS / QUALITY' tab.

To change 'SIZE / IPS / QUALITY' settings, highlight 'CONTINUOUS / MOTION SETUP' and press 'ENTER'. Ensure that 'SIZE / IPS / QUALITY' is highlighted in yellow, and press 'ENTER' again. The 24 hour time bar is highlighted in green.

SIZE / IPS / QUALITY (continued)

RECOF	RDING)				
RECORDING	SIZE/FPS		CTIVATION]		
OPERATIONS	SUN 😂) 6	<u> </u>	2 18	24		
CONTINUOUS/	TIME						
MOTION	۰	SIZE	FPS	QUALITY	AUDIO		
RECORDING	CH 1	352 X 288	25	HIGHEST	ON		
	CH 2	352 X 288	25	HIGHEST	ON		
ALARM	CH 3	352 X 288	25	HIGHEST	ON		
RECORDING	CH 4	352 X 288	25	HIGHEST	ON		
	CH 5	352 X 288	25	HIGHEST	ON		
PANIC	CH 6	352 X 288	25	HIGHEST	ON		
RECORDING	CH 7	352 X 288	25	HIGHEST	ON		
	CH 8	352 X 288	25	HIGHEST	ON		
	CH 9	352 X 288	25	HIGHEST	ON		
	CH 10	352 X 288	25	HIGHEST	ON		
	CH 11	352 X 288	25	HIGHEST	ON		
	CH 12	352 X 288	25	HIGHEST	ON		
	CH 13	352 X 288	25	HIGHEST	ON		
	CH 14	352 X 288	25	HIGHEST	ON		
	CH 15	352 X 288	25	HIGHEST	ON		
	CH 16	352 X 288	25	HIGHEST	ON		
			CANC	EL APPLY	CLOSE		



Click on the **TIMELINE** to select a block of time.

Press 'ENTER' to display the green cursor.

The green cursor square shown represents one hour. (In this case between 00:00 and 01:00).

The table below the time bar shows the recording settings for this time period.

RECOR	RDING)		
RECORDING	SIZE/FPS/0		CTIVATION		
OPERATIONS	SUN 🚔 ₀	e	5 1	2 18	24
	TIME				
MOTION		SIZE	FPS	QUALITY	AUDIO
RECORDING	CH 1	352 X 288	25	HIGHEST	ON
	CH 2	352 X 288	25	HIGHEST	ON
ALARM	CH 3	352 X 288	25	HIGHEST	ON
RECORDING	CH 4	352 X 288	25	HIGHEST	ON
	CH 5	352 X 288	25	HIGHEST	ON
PANIC	CH 6	352 X 288	25	HIGHEST	ON
RECORDING	CH 7	352 X 288	25	HIGHEST	ON
	CH 8	352 X 288	25	HIGHEST	ON
	CH 9	352 X 288	25	HIGHEST	ON
	CH 10	352 X 288	25	HIGHEST	ON
	CH 11	352 X 288	25	HIGHEST	ON
	CH 12	352 X 288	25	HIGHEST	ON
	CH 13	352 X 288	25	HIGHEST	ON
	CH 14	352 X 288	25	HIGHEST	ON
	CH 15	352 X 288	25	HIGHEST	ON
	CH 16	352 X 288	25	HIGHEST	ON
			CANC	EL APPLY	CLOSE



Click and drag on the **TIMELINE** to select a block of time.

Example: To change the recording settings between 09:00 and 18:00.

Use the CURSOR KEYS to move the green cursor to the 09:00 position and press 'ENTER'.

The cursor changes to orange to show the start position.

Use the $\ensuremath{\text{CURSOR KEYS}}$ to stretch the orange cursor across to the 18:00 position.

SIZE / IPS / QUALITY (continued)

>	RESOLUTION	FRAME RATE	QUALITY	AUDIO	
CH 1	352 x 288 🚔	25 🌲	HIGH 🚔	OFF 🚔	
CH 2	352 x 288 🚔	25 🊔	HIGH 🚔	OFF 🚔	
CH 3	352 x 288 🚔	25 🊔	HIGH 🚔	OFF 🚔	
CH 4	352 x 288 🚔	25 🌲	HIGH 🚔	OFF 🊔	
CH 5	352 x 288 🚔	25 🌲	HIGH 🚔	OFF 🚔	
CH 6	352 x 288 🚔	25 🌲	HIGH 🚔	OFF 🚔	
CH 7	352 x 288 🚔	25 🌲	HIGH 🚔	OFF 🚔	
CH 8	352 x 288 🚔	25 🌲	HIGH 🚔	OFF 🚔	
CH 9	352 x 288 🚔	25 🊔	HIGH 🚔	OFF 🚔	
CH10	352 x 288 🚔	25 🚔	HIGH 🚔	OFF 🚔	
CH11	352 x 288 🚔	25 🚔	HIGH 🚔	OFF 🚔	
CH12	352 x 288 🚔	25 🚔	HIGH 🚔	OFF 🚔	
CH13	352 x 288 🚔	25 🚔	HIGH 🚔	OFF 🚔	AVAIL. FPS
CH14	352 x 288 🚔	25 🌲	HIGH 🚔	OFF 🚔	352 x 240 🖨 0 🚔
CH15	352 x 288 🚔	25 🌲	HIGH 🚔	OFF 🚔	704 x 240 🖨 0 🚔
CH16	352 x 288 🚔	25 🌲	HIGH 🚔	OFF 🚔	704 x 480 🖨 0 🚔
				01	CANCEL



Click on the SIZE, IPS, QUALITY or AUDIO fields. Use the substantiation to modify the value.

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

SIZE : Recording resolutions of CIF (352x240), 2CIF (704x240) or D1 (704x480) can be selected for each channel.

IPS : Image rates between 1 and 30ips can be set for each channel.

QUALITY : Four different recording quality levels 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.

During playback, when a channel is viewed in full screen, the assigned audio channel will play back at the same time.

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

- NOTE: Remember that if the SCHEDULE MODE is set to WEEKLY, recording settings need to be changed for each day as well as for each particular time.
- NOTE: DR16H supports a maximum recording rate across all channels of 480/400 images per second at CIF (352x240) resolution. (DR8H: 240/200ips, DR4H:120/100ips)

As settings are adjusted, the 'frames available' at bottom left displays the number of available images still remaining and must always be zero or higher.

If, while changing recording settings, this figure becomes negative, recording resolutions and/or image rates must be lowered to increase the 'frames available' value to zero or above.

SCHEDULE





Click on the 'SCHEDULE' menu.

To change 'SCHEDULE' settings, highlight 'CONTINUOUS / MOTION RECORDING' and press 'ENTER'. Use the CURSOR KEYS to highlight 'SCHEDULE' and press 'ENTER'.

The schedule box is highlighted in green.



Press 'ENTER' to display the green cursor square.

Example: To set all channels to motion detection recording only between 18:00 and 00:00.

Use the **CURSOR KEYS** to move the green cursor to the 18:00 position and press '**ENTER**'. The cursor changes to orange to show the start position.

The schedule grid uses differently-colored blocks to denote the different recording modes:

- NO COLOR blocks: No recording.
- LIGHT BLUE blocks: The DVR will record continuously.
- DARK BLUE blocks: The DVR will only record while motion is detected.
- PINK blocks: The DVR will record continuously and with motion event.

ALARM RECORDING

RECOF	RDING)		
RECORDING	SIZE/FPS/	QUALITY A	CTIVATION		
OPERATIONS	SUN 🊔 👌	6		12 1	R 24
	TIME				
CONTINUOUS /		SIZE	FPS	QUALITY	AUDIO
RECORDING	CH 1	352 X 288	25	HIGHEST	ON
	CH 2	352 X 288	25	HIGHEST	ON
ALARM	CH 3	352 X 288	25	HIGHEST	ON
RECORDING	CH 4	352 X 288	25	HIGHEST	ON
	CH 5	352 X 288	25	HIGHEST	ON
PANIC	CH 6	352 X 288	25	HIGHEST	ON
RECORDING	CH 7	352 X 288	25	HIGHEST	ON
	CH 8	352 X 288	25	HIGHEST	ON
	CH 9	352 X 288	25	HIGHEST	ON
	CH 10	352 X 288	25	HIGHEST	ON
	CH 11	352 X 288	25	HIGHEST	ON
	CH 12	352 X 288	25	HIGHEST	ON
	CH 13	352 X 288	25	HIGHEST	ON
	CH 14	352 X 288	25	HIGHEST	ON
	CH 15	352 X 288	25	HIGHEST	ON
	CH 16	352 X 288	25	HIGHEST	ON
			CAN	CEL APPLY	CLOSE



Click on the 'ALARM RECORDING' submenu.

The layout of this menu is very similar to the 'CONTINUOUS / MOTION RECORDING' menu.

This menu screen allows the user to configure alarm-activated recording.

There are 2 sections to this menu:

SIZE / IPS / QUALITY:: Recording settings for each channel can be defined across a 24-hour period, in blocks **SCHEDULE:** This section determines at what times the DVR will record and whether it is set to continuous or motion.

NOTE: Please refer to the instructions for the 'CONTINUOUS / MOTION RECORDING' menu for details on setting up the 'SIZE / IPS / QUALITY' and 'SCHEDULE' tabs within the 'ALARM RECORDING' menu.

Alarm-activated recording can be used in conjunction with the 'CONTINUOUS / MOTION RECORDING' menu. The DVR can be configured to record continuously at a low image rate ('CONTINUOUS / MOTION RECORDING' menu), and then increase to a higher image rate during an alarm condition. ('ALARM RECORDING' menu)

🛞 RECOF	RDING					
(
RECORDING		SIZE	FPS	QUALITY	AUDIO	
OPERATIONS	CH 1	704 X 576	25	HIGHEST	ON	
CONTINUOUS /	CH 2	704 X 288	25	HIGHEST	ON	
MOTION	CH 3	352 X 288	25	HIGHEST	ON	
RECORDING	CH 4	352 X 288		HIGHEST	ON	
ALARM	CH 5	352 X 288	2	HIGHEST	ON	
RECORDING	CH 6	352 X 288	2	HIGHEST	ON	
	CH 7	352 X 288	2	HIGHEST	ON	
PANIC	CH 8	352 X 288	2	HIGHEST	ON	
RECORDING	CH 9	704 X 576	25	HIGHEST	ON	
	CH 10	704 X 288	25	HIGHEST	ON	
	CH 11	352 X 288	25	HIGHEST	ON	
	CH 12	352 X 288	2	HIGHEST	ON	
	CH 13	352 X 288	2	HIGHEST	ON	
	CH 14	352 X 288	2	HIGHEST	ON	
	CH 15	352 X 288	2	HIGHEST	ON	
	CH 16	352 X 288	2	HIGHEST	ON	
Į			CANC	CEL APPLY	CLOSE	

PANIC RECORDING



Click on the '**PANIC SETUP**' submenu. Click on the **SIZE**, **IPS**, **QUALITY** and **AUDIO**.

During a Panic Recording condition, the DVR will override all other recording settings and record continuously on all channels as per the settings configured here.



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

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

SEARCH – SEARCH BY TIME





Click on the desired search date from the calendar.

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

The calendar displayed on the left side of the screen shows the current month.

Days which have any recorded footage will be highlighted in green.

The timeline on the right side of the screen shows a 24-hour status of all channels for the selected day.

Each block represents 15 minutes of time. Light blue areas indicate the presence of recorded video.





Click and drag the time bar across the timeline.

Press **ENTER** to select the calendar and use the **CURSOR KEYS** to move the purple square to the desired day. As different days are selected, the timeline display also changes to show the timeline of recorded footage for that day. Press **ENTER** to choose the date and move to the timeline.

P SEARC	ЭН													
SEARCH BY TIME SEARCH BY EVENT	2009 APPRIL 5 H T H T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	CH1 CH2 CH3 CH4 CH5 CH6 CH7	00	02	04	06	08	10	12	14	16	18	20	22
	17 : 20 : 00 🕞	CH 8 CH 9 CH10 CH11 CH12 CH13 CH14												
		CH15 CH16		(F	PANC)		PL	AY.		с	LOS	E



Click the **PLAY** button on the bottom of the screen.

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

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

The currently selected time is displayed above the calendar.

Press **ENTER** to begin playback from the selected time.



SEARCH MODE : PANO



SEARCH MODE : Multi-Playback

PANO (Panoramic or Time-of-Day Search) :

Each display pane shows 3 hour of data. *CH1 : 0~3 o'clock CH2 : 3~6 o'clock* ... *CH8: 21~24 o'clock*

User can select different channels and play back using variable play speeds - up to 64x.







The default playback mode is 16-channel view.

By pressing **DISPLAY** or using the **CHANNEL SELECTION** buttons, it is possible to display a single screen or other screen display modes similar to the standard live screen display modes. During playback, turning the **SHUTTLE WHEEL** steadily clockwise increases the playback speed by up to 64x.

Turning counter-clockwise will reverse play up to 64x. If the **SHUTTLE WHEEL** is released, playback is paused. If the **HOLD** button is pressed and released during **SHUTTLE WHEEL** operation, the last shuttle position is held, even when the wheel is released.

When playback is paused, the **JOG DIAL** can be used to accurately move the footage forward or backwards, frame by frame. Playback speed and direction can also be controlled using the five playback control buttons located below the jog wheel.

During playback, user can put a bookmark on the recorded data that needs to be archived later.

Click the 💽 button at the time the archive is to be started. Then playback will halt and menu below will appear.

INFOR	MATION		×
TAG FROM TO MEMO	DATA1 2009/04/03 21:51:33 2009/04/03 21:51:59	A/V CHANNEL S CH1 S CH2 S CH3 S CH CH5 CH6 C CH7 C CH CH9 CH10 CH11 C CH CH13 CH14 CH15 C CH	H4 H8 H12 H16
INFO	117746 Kbytes	⊠ LOG	
R		START STOP CLOSE	

After inputting the "TAG" name, press **START**. Then the system will return to playback mode.

Click the 💽 button again at the end point of the archive. The menu below will appear once again.

INFOR	MATION	×
TAG FROM TO MEMO	DATA1 2009/04/03 21:51:33 2009/04/03 21:51:59	A/V CHANNEL S CH1 S CH2 S CH3 S CH4 CH5 CH6 CH7 CH8 CH9 CH10 CH11 CH12 CH13 CH14 CH15 CH16
INFO	117746 Kbytes	I LOG
R		START STOP CLOSE

RESERVE : Press this button to reserve the currently selected data.

CONTINUE : Press this button to go back and reserve more data. The system will return to playback mode.

START : Press this button to start the reservation.

STOP : Make sure to press this button to reserve the current data first. Then user can select RESERVE.

CLOSE : Close the reservation menu and finish archiving.

NOTE: Reserved data will be kept on the HDD.

The user can view all of the reserved clips listed in 'RESERVED DATA MANAGEMENT' within the ARCHIVING menu.

P SEARC	ЭН													
SEARCH BY TIME	2009	CH1	00	02	04	06	08	10	12	14	16	18	20	22
SEARCH BY EVENT	S H T H T F S 1 2 3 4 5 6 7 8 9 1011	CH 2 CH 3 CH 4									_			
	12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	CH5 CH6												
	17:20:00	СН 8 СН 8 СН 9												
	REFRESH	CH10 CH11 CH12									_			
		CH13 CH14 CH15												
		CH16			_	PANO	, ,		PL	AY	_	c	LOS	
				(F	PANO	C		PL	AY		С	LOS	Ð

To exit playback mode and return to the search screen in order to choose another time and date, press '**RETURN**'.

To exit the search screen and return to Live View mode, repeatedly press the '**RETURN**' button.

SEARCH – SEARCH BY EVENT

D SEARC	Н									
SEARCH BY TIME	ALL	2	1		2		3		4	
SEARCH BY EVENT	ALL SYSTEM		SETU	UP RM		MOTIO V. LOS	N 🗆 S 🗆	SN RE	IART CORD	
	FROM TO	20 20	09/04/0 09/04/0	3 02:56: 3 22:56:	00 AN 00 PM	49 49	NEARE	IST 🖨	SEA	RCH
	DATE	/ TIME	4:40		004		LOG		DMIN	
	2009/04/0	3 22:0	1:19			LLOG OI	FF : ARC	HIVING	:ADMI	N
	2009/04/0 2009/04/0	3 22:0 3 22:0	1:19 1:19			l log oi L log oi	FF : ARC N : ARCH	HIVING IVING :	:ADMII	N
	2009/04/0	3 22:0 3 22:0	1:19 1·19	1	rime P	RECORD	ING OFF	: #11 • #10		
	2009/04/0	3 22:0	1:19	1	TIME F	RECORD	ING OFF	: #9		
	2009/04/0	3 22:0	1:19		TME F	RECORD	PAGE I	: #8 DOWN	PAG	E UP
l									CLO	DSE

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

To search for an event and playback the recorded footage, press the **SEARCH** button and log in as ADMIN with the default password of 1234.

D SEARC	н							
- -								
SEARCH	ALL S	3	1	2 2		3		4 🗹
	AL I		SETUD		MOTIO		SMAD	
SEARCH	SYSTEM		ALARN	1 0	V. LOSS		RECO	RD 🗆
BY EVENT	0.012							
	FROM	200	09/04/03 0	02:56:00 AN				
	TO	200	09/04/03 2	22:56:00 PN	÷	NEARE	ST 🖨 💽	SEARCH
	DATE	/ TIME				LOG		
	2009/04/0	3 22:0'	1:19	LOCA	L LOG ON	I:SEARC	CH: ADMI	N
	2009/04/0	3 22:0	1:19	LOCA	L LOG OF	F : ARCH	IVING :AI	OMIN
	2009/04/0	3 22:0	1:19	LOCA	L LOG OF	F : ARCH	IVING :AI	OMIN
	2009/04/0	3 22:0	1:19	LOCA		I : ARCHI	VING :AD	MIN
	2009/04/0	3 22:0	1:19	TIME	RECORDI	NG OFF :	#11	
	2009/04/0	3 22:0	1:19	TIME	RECORDI	NG OFF :	#10	
	2009/04/0	3 22.0	1-19	TIME	RECORDI	NG OFF :	#9	
	2000/04/0				LCONDI	PAGE D	OWN	PAGE UP
							_	
l								CLOSE



Click the 'SEARCH BY EVENT' menu.

Check all desired options. Use the buttons to select the desired date and time range to search for events.

P SEARC	н										
SEARCH BY TIME	ALL 🖸]	1		2		:	3		4	
SEARCH BY EVENT	ALL SYSTEM		SETL	jp RM		MOTIC V. LOS)N S		S R	MART ECORD	
	FROM TO	200 200	09/04/0 09/04/0	3 02:50 3 22:50	6:00 AM 6:00 PM	4 4 4	N	EARES	ST 🗧	SEA	RCH
	2009/04/0	3 22:0	1:19		LOCAL		N : 8	GEARC	:H : A		
	2009/04/03	3 22:0 3 22:0 3 22:0	1:19 1:19 1:19		LOCAL	L LOG C L LOG C L LOG C	FF:			G :ADMIN G :ADMIN	
	2009/04/03 2009/04/03	3 22:0 3 22:0	1:19 1:19		TIME F	RECORD	DING	OFF : OFF :	#11 #10		-
	2009/04/03 2009/04/03	3 22:0 3 22:0	1:19 1:19		TIME F	RECORD	DING	OFF : OFF :	#9 #8		
							P/	IGE D	OWN	CLO)SE



Click the 'SEARCH' button to search for events.

Highlight '**SEARCH**' 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 user. During event-based playback, the **SHUTTLE WHEEL, JOG RING** and playback buttons can be used as normal. To stop playback and return to live view mode, repeatedly press the '**RETURN**' button.

The event log search contains the following selectable entries:

ALARM: When this option is checked, all alarm input events are displayed for the chosen date range.
TIMER: When this option is checked, scheduled recording operations are displayed for the chosen date range.
MOTION: When this option is checked, all motion detection events are displayed for the chosen date range.
ETC: When this option is checked, all other events (video loss, remote logins, etc.) are displayed for date range.

ARCHIVING

To archive recorded footage to a USB Memory Stick or a CD/DVD disc, press the **ARCHIVE** button.

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

CREATE A NEW ARCHIVE

🚺 ARCHI	VING			
NEW ARCHIVING RESERVED DATA MANAGEMENT	TAG SELECT DEVICE LOG MALL CH 2 CH 1 CH 2 CH 2 CH 4 CH 2 CH 4 CH 2 CH 4 CH 2 CH 12 CH 12 CH 12 CH 12 CH 12 CH 14 CH 15 CH 15 CH 16 CH 16 C	DATA3 NO DEVICE		2009/04/03 02:56:00 AM
	Total Size : 1	116736 Kbytes	мемо	
		R	ESERVE	BURN CLOSE



Click on a field to configure each of the archive settings. Use the button to modify each value. Click **QUERY** to view the data size of the selected clip.

It is useful to use 'QUERY' first before selecting 'BURN' or 'RESERVE'.

Press the 'RELEASE' button to reset the results from any previous 'QUERY'.

RESERVE : Press this after inputting the "TAG" name to reserve the selected clip.

BURN : Press this after inputting the "TAG" name. Then press 'START' after viewing the confirmation window.

ARCHI	VING		
NEW ARCHIVING RESERVED DATA MANAGEMENT	TAG SELECT DEVICE LOG ALL OF A	BURNING TAG NAME DATA3 DEVICE SK6211 P BURNING TYPE BURNING P WRITING 98 START CLOSE	2:56:00 AM
	ARCHIVING INFO	MEMO 116736 Kbytes	
		RESERVE	RN CLOSE

NOTE: To use a USB Memory Stick, it must be inserted into the DVR before entering the archiving menu.

ARCHIVING

RESERVED DATA MANAGEMENT

ARCHI	VING)			
	AVI ARCHIVING LIST ARCHIVING DATE	ARCHIVING TAG	BURNED	SIZE	
RESERVED	2009/04/03 21:57:51 PM	DATA1	0	117 MB	
MANAGEMENT	2009/04/03 21:58:10 PM	DATA2	0	117 MB	
	2009/04/03 21:58:20 PM	DATA3		117 MB	
		INFORMATION	DELETE	BURN	
				CLOSE	
, i					

AVI ARCHIVING LIST: User can see the list of data that has been reserved from the 'Create New Archive' menu

INFORMATION : The detailed information of each clip that has been reserved.**DELETE** : Delete the selected clip from the list of reserved data.**BURN** : Perform an archiving operation using the selected clip.

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** of the archive is larger than the amount of available space on the backup media, the **END TIME** of the archive is adjusted accordingly. The **MODIFIED SIZE** is the final file size of the archive.

Select "OK" and press 'ENTER' to begin the archiving process.

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

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

NOTE: In case the selected data size for archiving exceeds the size of the CD / DVD / USB media being used, the user may choose to continue the archive on additional pieces of media until complete. Insert a new disc or drive after the first archive has completed, and click or press 'CONTINUE'.

PRELIMINARY BEFORE CONNECTING

When configuring for a web or remote connection to the DVR, Ports 554 and 8080 should be forwarded within the router. Refer to the user's manual of your specific model of router for information on port forwarding configuration.

WEB / REMOTE C	LIENT - MINIMUM PC REQUIREMENTS		
CPU	P4 (3.0GHz or higher)		
RAM	512MB (or higher)		
Video Card	GeForce MS 400, ATI Radeon 7500 (or higher)		
	GeForce 8 Series (or higher)		
Video RAM	64MB (or higher)		
Monitor	1280x1024		
Operating System	Windows XP Service Pack 2 (or higher)		
Web Browser	IE 6.0 (or higher)		
Network / LAN	at least 100Mbps		
DirectX	Version 7.0 (or higher)		

HOW TO CONNECT

Input the IP address or URL of the DVR into the Address Bar of your web browser.

If using a DDNS service, you may input the URL as shown below: http://1234.dvrlink.net:8080 (webport :8080) or



The default User ID and Password are 'ADMIN' & '1234', respectively.

<i>(2)</i> A	TM - Windows Internet Explorer			<u>- 🗆 ×</u>
\bigcirc	💽 🗢 🙋 http://211.219.130.123:9000/html/trustsite.htm	💌 🗟 🐓 🗙 📴 Bing		P •
х	¶2 -			
🔶 F	avorites 🛛 🚖 🏉 Suggested Sites 👻 🙋 Web Slice Gallery 💌			
6	ATM	🏠 • 🗟 · 🖃	Page - Safety - Tools -	? • [≫]
😨 T	his website wants to run the following add-on: 'regtrustsite.dll' from 'Con	trol name is not available'. If you trus	t the website and the add-on and wan	t to 🗙
	ilow it to furly click here	Run Add-on		
		Run Add-on on All Websites		
		What's the Risk?		
		Information Bar Help		
			-	

User will need to install the ActiveX control, click Run Add-on.

Do you	want to install this soft	tware?		
	Name: itxview Cont	rol		
	Publisher: AHOPE Co.,	LTD.		
× More	e options	C	Install	Don't Install
~	tailed - Class Course the Technology			and the Wellin bears

In case of not being able to install ActiveX, the user needs to enable ActiveX within the IE security menu.

Internet Options	? X
General Security Privacy Content Connections Programs Adva	anced
Select a zone to view or change security settings.	Security Settings - Trusted Sites Zone
Internet Local intranet Trusted sites Restricted sites Trusted sites Trusted sites Sites This zone contains websites that you trust not to damage your computer or your files. You have websites in this zone. Sites Security level for this zone Allowed levels for this zone. Security level for this zone. Allowed levels for this zone Allowed levels for this zone. Security level for this zone. - • • • - • • • - • • • - • • • - • • • - • • • - • • • - • • • - • • • - • • • - • • • - • • • - • • • - • • • - • • • <td< th=""><th>Settings</th></td<>	Settings
OK Cancel App	oply Cancel

Select 'Enable' for all ActiveX-related options:

("Download signed ActiveX controls", "Download unsigned ActiveX controls", etc.)

LIVE MODE



Icons and corresponding functions within LIVE mode:



- Status : Shows active status indicators of all channels on the DVR.
 - 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 Video Loss.
 - 4. Recording Display current recording mode. (T: Timer or Continuous, M: Motion, A: Alarm Recording)
 - 5. Alarm Out indicator will be marked when system detects Alarm Output.
 - 6. Refresh Time interval for the information on the status panel to refresh.

	209				-											
Channel No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Alarm	10	10	10	10		1			<u>iñ</u>	10	10	10				
Motion	火	大	大	大					大	大	大	大	法	法	法	法
Video loss																
Recording																Π
Alarm out	5	10	3	3					3	1	3	1				
										R	efres	h Tim	e 3	sec		-
														Re	heolo	

Log : Display the system event log in real time.

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

- PTZ : Control any connected PTZ camera remotely.



- 1. Pattern move a camera to a sequence of several preset camera positions in order.
- 2. Preset set a position of the camera to be recalled later.
- 3. Swing move a camera between two or more preset points.

SEARCH BY TIME



- Select a position on the timeline or set an exact time.
- Press the 'Play' button to begin playback from the selected position.

Search By Time	Search By	Event				
2010 • / 01 • / 27	▼ 05	• : 49 • : 4	4	Refresh	Play	Backup
Continuous Panic	Alarm	Motion	PRE			
00 01 02 03 0	4 05 06 0	7 08 09 10	11 12 1	3 14 15 1	6 17 18 19	20 21 22 23
1						
2						
4						
5						
6						
7						
8						
10						
11						
12						
13						
15						
16						

- 1. **Refresh** : Refresh all data indicators on the recording table.
- 2. Play : Initiate playback of recorded data from the current position on the timeline.
- 3. Backup : User can archive recorded data remotely from the DVR to the local PC.



SEARCH BY EVENT

	Search by event		
Event			
IIA II			
System	Setup	Motion	Smart 🗹
Alarm	Video Loss	Record	
Period			
From 2009 - / 09	• / 24 •	00 💌 : 00 💌 : 00 💌	
To 2009 / 09	• / 24 •	15 🔹 : 38 💌 : 36 💌	Nearest 💌 Search
Date / Time		Log	
Page Down Page	Up		

- 1. Event : Select the types of events to search for within the recorded data.
- 2. Period : Set the date/time range to search for events within the recorded data.
- 3. Search : Begin query, and list all events found within selected range and type.

Search By Time	Search By Event				
Event					
Svstem	Setup	Motion		Smart	
Alarm	Video Loss	Record			
Period					
From 2010 7 01		00 . 00 .	00		
To 2010 - / 01	✓ / 27	14 💌 : 29 💌 :	48 💌	Nearest 🗾	Search
Date / Time			Log		
2010.01.26 18:25:26	Local Log Off : Live	e Display: ADMIN			
2010.01.26 18:25:25	Local Log Off : Sys	tem Setup: ADMIN			
2010.01.26 18:24:05	Local Log On : Svs	tem Setup: ADMIN			
2010.01.26 18:23:28	Local Log On : Live	e Display: ADMIN			
2010.01.26 17:45:32	Local Log Off : Live	e Display: ADMIN			
2010.01.26 17:44:30	Local Log Off : Svs	tem Setup: ADMIN			
2010.01.26 17:44:20	Local Log On : Sys	tem Setup: ADMIN			
2010.01.26 17:44:11	Local Log On : Live	e Display: ADMIN			
Page Down Page U	Jp				

4. Double-click an event from the list to initiate playback, with the specific channel shown in full screen mode.

REMOTE SETUP

1. CAMERA : User can configure all camera attributes, such as title, covert channel, PTZ, or motion.

Favorites & ATM								Pag	je • Safety • Tools •
	Live	e	Search	Setup	Infoma	tion			WEB Remote View
Camera	Camer	ra Setting							
Camera	CH		Camera Ti	itle	Cov	ert	Audio)	
Color	All					•			
PT7	1	CH1			OFF		01 CH	•	
Motion	2	CH2			OFF	-	01 CH	-	
Woton	3	CH3			OFF	•	01 CH	•	
Display	4	CH4			OFF	•	01 CH	•	
Sound	5	CH5			OFF	•	OFF	-	
System	6	CH6			OFF	•	OFF	-	
Record	7	CH7			OFF	•	OFF	•	
User	8	CH8			OFF		OFF	-	
Network	9	CH9			OFF		OFF	•	
Sensor	10	CH10			OFF		OFF	•	
Sensor	11	CH11			OFF		OFF	•	
	12	CH12			OFF		OFF	•	
	13	CH13			OFF	•	OFF	•	
	14	CH14			OFF		OFF	•	
	15	CH15			OFF		OFF	•	
	16	CH16			OFF		OFF	•	
						Ok	Canc	el	

- Motion Area Setup for individually configuring motion areas and sensitivity.



1. CAMERA (continued)

- 1) Select the 'Motion' submenu.
- 2) Select a channel and the motion sensitivity level.
- 3) Click and drag the mouse across the image grid to select motion areas.
- 4) Click OK.

2. DISPLAY

1) OSD - Configure properties for the on-screen display (OSD) of the DVR.

					h • 🔊
	Live	Search	Setup	Infomation	v
Camera	OSD Setting				
Display	S	tatus Bar Timeout [10 Sec	•	
▶ OSD		Camera Title	On	•	
Monitor	Rec	ording Mode Icon	On	-	
Sound		Border	On	•	
System	Motic	Border Color	Gray	<u> </u>	
Record		Motion Color	Blue		
□ User		Language	English	-	
Network					
Sensor				ОК	Cancel

2) Monitor - Set dwell time for sequence, spot monitor output, and pop-up functions.



3. Sound

- 1) Audio Setting Enable live audio, and select a live audio channel.
- 2) Buzzer Setting Activate DVR internal buzzer, based on keypress.

	Live	Search	Setup	Infomation	
Camera	Audio Setting	1			
Display		Live Audio	On	•	
Sound	Defa	ult Audio Channel	1 CH	•	
Audio/Buzzer		_			
System	Network Au	Idio Transmission	On	_	
Record	Netwo	ork Audio Receive	On	•	
User	Buzzer Settir	a			
Network		Keypad	On	•	
Sensor					
				OK	Cancel

4. System

Configure Date and Time Formats, NTP Time Server, Time Zone and DST properties.

	Live	Search	Setup	Infomation	
Camera	Date/Time Se	etting			
Display		Date Format	YYYY/MM/DD	•	
Sound		Time Format	24 Hour	•	
System		_			
Date/Time	Network 7	Time Server Setup	POOL.NTP.ORG		
Management		_			
Control Device		Time Zone Setup	GMT+09:00 Asia/Seoul	•	
Record		D.S.T	Off	•	
User					-
Network				OK	Cancel
Sensor					

5. Recording

User can configure all of the recording parameters and schedules.

(This is similar to the procedure for configuring these properties on the DVR system.)

	Live	Search	Setup	Infomation		WEB Remote Vie
Camera	Continusous	/ Motion Recordi	ng Setting			
Display						
Sound	Size / FPS	/ Quality	Activation			
System		0	6	12	18	24
Record	Time					
Operation		Resolution	Fran	ne Rate	Quality Audi	o FPS
Continuous /	CH1	352 * 240	▼ 15	 Highes 	st 💽 Off	•
Continuous /	CH2	352 * 240	▼ 15	 Highes 	st 💽 Off	• 14
Motion	CH3	352 * 240	• 15	 Highes 	st 💽 Off	Remain
Alarm	CH4	352 * 240	• 15	 Highes 	st 💽 Off	•
Panic	CH5	352 * 240	▼ 15	 Highes 	st 💽 Off	•
User	CH6	352 * 240	• 15	 Highes 	st 💽 Off	•
- Network	CH7	352 * 240	▼ 15	 Highes 	st 💽 Off	•
e network	CH8	352 * 240	• 15	 Highes 	st 💽 Off	•
Sensor	CH9	352 * 240	▼ 15	 Highes 	st 💽 Off	•
	CH10	352 * 240	• 15	 Highes 	st 💽 Off	•
	CH11	352 * 240	• 15	 Highes 	st 💽 Off	•
	CH12	352 * 240	• 15	 Highes 	st 💽 Off	•
	0040	252 * 240	45	- Linbor	+ =	

6. User

Add new users, configure existing users, authority level and log out time.

	Live	Search	Setup	Infomation	WEB Remot	e Viewer					
Camera	User Authori	User Authority Setting									
Display			Manage	r	User						
Sound	Setu	qu									
Svstem	PT	Z	V								
Record	Sear	ch	V								
	Archiv	ving	V								
User	Web Vi	ewer	V								
Management					OK Cancel						
Authority											
Log Out											
Network											
Sensor											

7. Network

User can check the DVR network information and adjust the network bandwidth throttle.

All other IP settings are not allowed to be changed remotely. These settings can only be changed locally.

	Live	Search	Setup	Infomation	WEB Remote Viewer
Camera	IP Setup Set	ting			
Display		DHCP 🔽			
Sound	IP A	ddress 192.168.0.19	7		
System	Subne	et Mask 255.255.255.	D		
Record	G	ateway 192.168.0.1			
	DNS 1st	Server 192.168.0.1			
	DNS 2st	Server 0.0.0.0			
Network	RTSP Servi	ce Port 1500			
E-mail	Web Serv	er Port 9000			
Sensor					
	Max TX	Speed 8192 Kbyte			
		DDNS On	•		

For setting up e-mail notification, user can configure the SMTP server details remotely.

	Live	Search	Setup	Infomation	
Camera	E-mail Setting	9			
Display		Server			
Sound		Port 25			
System					
Record	S	ecurity OFF	~		
User		Upper			
Network	Pas	ssword			
Network		From			
▶ E-mail					
Sensor				OK	Cancel
WEB CONNECTION SETUP

8. Sensor

Configure all options for Alarm Input, Alarm Output, Buzzer Out, and E-Mail Notification. The menu structure is very similar to the local DVR system setup for Event / Sensor.

	Live	Search	Setup	Infomation	WEB Remote Vie
Camera	Alarm Outpu	t Setting			
Display	Ala	arm Out 01 CH	*		
Sound	Op	eration Enable	•		
System		Mode Transparent	•		
Record		Type High	•		
□ User	D	Ouration 5 sec	▼ ▼		
Network	100				
Sensor	CH No.	Alarm		Video loss	Motion
HDD Event	All				
Alarm Input	CH1				
Alarm Output	CH2				
Buzzer Out E-mail Notification	CH3				
	CH4				
	CH5				
	CH6				
	CH7				
	CH8				
	0110				

INFORMATION

- Displays the DVR Model and WEB Remote Software Version.

ATM - Windows Internet Explore	er					
Eavorites	ime.org:5500/html/v	ersioninfo.htm		▼ 🖄	★ X □ Naver A x □ A x □ A x □	p ▼ Page ▼ Safety ▼ Tools ▼ @ ▼
A MINICE						-
	Live	Search	Setup	Infomation		WEB Remote Viewer
		N	Neb Viewer Info	mation		
		DVR Model : ATM_1624				
		WEB Version : WEB_v1.22_1.1.1.7_091113				
						E
				🗸 Truste	ed sites Protected Mode: Off	🖓 🔻 🔍 100% 🔻

WATERMARK PROCESS

1. Open the archive data, and Run the file [bplayer.exe], which is included within the backup folder.

💭 🚽 🕨 Computer	▶ 최지혜 (F:) ▶ ARCHIVE_090924_172907		- 4,	Search ARCHIV	E_090924_1	72907	2
Organize	 New folder 				10	• 🗊	
🚖 Favorites	Name	Date modified	Туре	Size			
Desktop	arch_info	9/24/2009 8:29 AM	Text Document	7 KB			
🐌 Downloads	🔰 bplayer	9/24/2009 8:29 AM	Application	1,102 KB			
🔛 Recent Places	Ch01_090924144700_090924144759_00_834KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	835 KB			
	Ch02_090924144700_090924144759_00_848KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	849 KB			
🚚 Libraries	6h03_090924144700_090924144759_00_838KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	839 KB			
Documents	🖀 ch04_090924144700_090924144759_00_844KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	845 KB			
J Music	Ch05_090924144700_090924144759_00_864KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	865 KB			
E Pictures	Ch06_090924144700_090924144759_00_868KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	869 KB			
Videos	Ch07_090924144700_090924144759_00_866KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	867 KB			
	Ch08_090924144700_090924144759_00_870KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	871 KB			
Computer	6h09_090924144700_090924144759_00_838KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	839 KB			
Local Disk (C:)	6 ch10_090924144700_090924144759_00_848KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	849 KB			
BACKUP (D:)	7 ch11_090924144700_090924144759_00_844KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	845 KB			
- 최지혜 (F:)	6h12_090924144700_090924144759_00_854KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	855 KB			
퉬 8월22일 벅스 top1	Ch13_090924144700_090924144759_00_854KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	855 KB			
ARCHIVE_090924_:	Ch14_090924144700_090924144759_00_850KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	851 KB			
HDW2008-TAKEN	Ch15_090924144700_090924144759_00_848KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	849 KB			
NPKI	7 ch16_090924144700_090924144759_00_852KB_ADMIN	9/24/2009 8:29 AM	GOM 미디어 파일	853 KB			
TAKENAKA_HDW2 Vcard	词 setup	9/24/2009 8:29 AM	Application	810 KB			

2. Click the [Open File] button and choose the backup file you wish to open and verify.





WATERMARK PROCESS

- 3. After selecting the file, you will be asked to confirm whether or not you would like to check the watermark.
- 4. Click the [Yes] button to verify the embedded watermark.



5. If the archived AVI file has been modified, a [Verification Failed] message will appear.

SMARTPHONE CONNECTION

- iPhone
- 1. Select the Safari browser.



Enter the User ID and Password.
 (Default: ADMIN / 1234)

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





SMARTPHONE CONNECTION

BlackBerry

1. Select the Web browser.



2. Enter the IP address or URL to connect, and press the Enter button.



3. Enter the User ID and Password.

(Default: ADMIN / 1234)





English Disposal of your old appliance

- When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/ EC.
- All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
- The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
- For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

Français/French Élimination de votre ancien appareil

- Ce symbole, représentant une poubelle sur roulettes barrée d'une croix, signifie que le produit est couvert par la directive européenne 2002/96/EC.
- Tous les produits électriques et électroniques doivent être éliminés séparément de la chaîne de collecte municipale des ordures, par l' intermédiaire des installations de collecte prescrites et désignées par le gouvernement ou les autorités locales.
- Une élimination conforme aux instructions aidera à réduire les conséquences négatives et risques éventuels pour l'environnement et la santé humaine.
- Pour plus d'informations concernant l'élimination de votre ancien appareil, veuillez contacter votre mairie, le service des ordures ménagères ou encore le magasin où vous avez acheté ce produit.

Deutsch/German Entsorgung von Altgeräten

- Wenn dieses Symbol eines durchgestrichenen Abfalleimers auf einem Produkt angebracht ist, unterliegt dieses Produkt der europäischen Richtlinie 2002/96/EC.
- Alle Elektro- und Elektronik-Altgeräte müssen getrennt vom Hausmüll über die dafür staatlich vorgesehenen Stellen entsorgt werden.
- Mit der ordnungsgemäßen Entsorgung des alten Geräts vermeiden Sie Umweltschäden und eine Gefährdung der persönlichen Gesundheit.
- Weitere Informationen zur Entsorgung des alten Geräts erhalten Sie bei der Stadtverwaltung, beim Entsorgungsamt oder in dem Geschäft, wo Sie das Produkt erworben haben.

Italiano/Italian RAEE: SMALTIMENTO DELLE VOSTRE VECCHIE APPARECCHIATURE

- Quando il simbolo del "Cassonetto Barrato" è apposto su un prodotto, significa che lo stesso può ricadere nei termini previsti dalla Direttiva Europea nr. 2002/96/EC in funzione dell'attuazione definita dalla Legislazione dei singoli stati membri dell'Unione Europea.
- Tutti i prodotti elettrici ed elettronici dovrebbero essere smaltiti separatamente dai rifiuti municipali, tramite appositi contenitori, approvati dall'Amministrazione Comunale o dalle Autorità Locali.
- Il corretto smaltimento delle vostre vecchie apparecchiature, contribuirà a prevenire possibili conseguenze di impatto negativo sull' ambiente e per la salute dell'uomo.
- Per maggiori informazioni circa lo smaltimento delle vostre vecchie apparecchiature, siete pregati di contattare l'ufficio municipale della vostra città, il servizio di smaltimento rifiuti o il punto vendita nel quale avete acquistato il prodotto.

Polski/Polish Utylizacja starych urządzeń

- Kiedy do produktu dołączony jest niniejszy przekreślony symbol kołowego pojemnika na śmieci, oznacza to, że produkt jest objęty europejską dyrektywą 2002/96/EC.
- Wszystkie elektryczne i elektroniczne produkty powinny być utylizowane niezależnie od odpadów miejskich, z wykorzystaniem przeznaczonych do tego miejsc składowania wskazanych przez rząd lub miejscowe władze.
- Właściwy sposób utylizacji starego urządzenia pomoże zapobiec potencjalnie negatywnemu wpływowi na zdrowie i środowisko.
- 4. Aby uzyskać więcej informacji o sposobach utylizacji starych urządzeń, należy skontaktować się z władzami lokalnymi, przedsiębiorstwem zajmującym się utylizacją odpadów lub sklepem, w którym produkt został kupiony.

Português/Portuguese Eliminação do seu antigo aparelho

- Quando este símbolo de latão cruzado estiver afixado a um produto, significa que o produto é abrangido pela Directiva Europeia 2002/96/ EC.
- Todos os produtos eléctricos e electrónicos devem ser eliminados separadamente da coleta de lixo municipal através de pontos de recolha designados, facilitados pelo governo ou autoridades locais.
- A eliminação correcta do seu aparelho antigo ajuda a evitar potenciais consequências negativas para o ambiente e para a saúde humana.
- Para obter informaçõs mais detalhadas acerca da eliminação do seu aparelho antigo, contacte as autoridades locais, um serviço de eliminação de resíduos ou a loja onde comprou o produto.

Español/Spanish Cómo deshacerse de aparatos eléctricos y electrónicos viejos

- Si en un producto aparece el símbolo de un contenedor de basura tachado, significa que éste se acoge a la Directiva 2002/96/EC.
- Todos los aparatos eléctricos o electrónicos se deben desechar de forma distinta del servicio municipal de recogida de basura, a través de puntos de recogida designados por el gobierno o las autoridades locales.
- La correcta recogida y tratamiento de los dispositivos inservibles contribuye a evitar riesgos potenciales para el medio ambiente y la salud pública.
- 4. Para obtener más información sobre cómo deshacerse de sus aparatos eléctricos y electrónicos viejos, póngase en contacto con su ayuntamiento, el servicio de recogida de basuras o el establecimiento donde adquirió el producto.

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