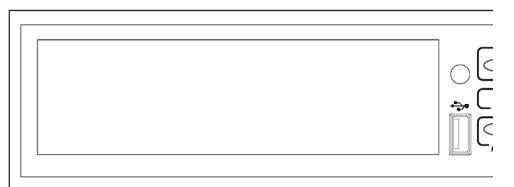


Digital Video Recorder

USER MANUAL



IMPORTANT SAFETY INSTRUCTIONS	04
BEFORE INSTALLATION	05
MAIN FEATURES	05
SYSTEM ORGNIZATION	07
SYSTEM CONTENTS	
Front Panel	08
Rear Panel	08
Remote Controller	
CONNECTION & POWER ON	09
LIVE DISPLAY	10
Division screen	
Manual Recording	11
Key Lock Function	
PTZ Camera control	12
SYSTEM SETUP	13
Display	
OSD	13
Monitor	14
Camera	15
Camera Title	15
Color Setup	15
PTZ Setup	
Motion Sensor	
Sound	
Audio	
Buzzer	
System	20
Date / Time	20
Network	21
Mail	22
User Management	22
System Management	23
Control Device	27
Event / Sensor	28
HDD Event	28
Alarm Input	28
Alarm Out	29
Buzzer Out	29
E-mail Notification	30

Disk Manage	31
RECORD MENU	32
Recording operations	32
Simple recording	33
Advanced recording	34
Manual recording	36
SEARCH	37
Time Search	37
Event Search	39
ARCHIVING	40
REMOTE CLIENT SETUP	43
Client software installation	43
Client software organization	45
Explanation of Function keys	46
Create a connect group	47
Detail Setup	48
Additional Configuration	49
REMOTE SEARCH	50
Explanation of function keys	51
Quick Search	52
Archiving	53
Still Shot	53
Log Viewer	54
Backup Player	54
Print	55
Event Viewer	55
Remote Recording Setup	56
Record	56
Camera	57
Sound	57
Event / Sensor	58
System	59
WEB Client Setup	60

IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- Do not block any of the ventilation openings.
 Install in accordance with the Manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use the attachments/accessories specified by the manufacturer.
- 12) Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) This equipment is indoor use and all the communication wirings are limited to inside of the building.
- 16) The socket-outlet shall be installed near the equipment and shall be easily accessible.
- 17) CAUTION

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

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

BEFORE INSTALLATION

- Installation should be carried out only by qualified personnel and in accordance with any electrical regulations in force at the time.
- The DVR must be placed on a stable surface or mounted in an approved cabinet. Adequate ventilation must be provided, taking particular care not to block any of the air vents on the DVR.
- Adequate protection against lightning strikes and power surges must be installed to prevent damage to the DVR.
- Any safety warnings on the DVR and in these instructions must be adhered to.
- If cleaning is necessary, shutdown the DVR and disconnect power first. Use a soft dry cloth only. Never use any abrasive cleaners.
- Do not attempt to service or repair the DVR as opening or removing covers may expose dangerous voltages or other hazards. Refer all servicing to qualified service personnel.

MAIN FEATURES

MOUSE CONTROLL

Designed to be controlled by mouse and easy to use.

ENHANCED GRAPHICAL USER INTERFACE [GUI]

The DVR menu structure and on screen display is presented in a simple to use and logical GUI format.

GENUINE TRIPLEX OPERATION

The DVR will continue to record at full frame rate during local playback, local setup, multi user remote viewing and playback and remote setup.

AUDIO

4 audio inputs are supported which can be assigned to any video channel. Live and recorded audio can be Monitored remotely over the internet and remote 'talkback' audio transmission to the DVR is also possible.

BACKUP

Recorded footage (including audio) can be archived to USB memory stick or CD. Playback software is embedded with the backup files and the backup also contains the system event log and backup

log for full traceability.

REMOTE CONNECTION

Software is provided to allow remote connection to up to 4 DVRs in one session. Depending on user level, Full DVR control is available over the internet as well as the ability to remotely configure the DVR. Alarm outputs on the DVR can be remotely triggered over the internet.

COMPREHENSIVE RECORDING SETUP

Recording can be scheduled, alarm activated or motion activated. For each type of recording, frame rates, image quality and audio recording properties can be adjusted per hour, per day and for each individual channel. The DVR also has a panic recording feature (from the front panel or external input) which overrides all other

PTZ CONTROL

Full PTZ control is available from the front panel or remote connection and a wide number of speed Dome protocols are supported. Protocols can be set individually for each channel and PTZ speed can be adjusted to suit particular speed domes.

TELEMETRY CONTROL

Full telemetry control is available from the front panel or remote connection and a wide number of speed dome protocols are supported. Protocols can be set individually for each channel and telemetry speed can be adjusted to suit particular speed domes.

EXTENSIVE MONITOR SUPPORT

The DVR has 3 main monitor outputs (Composite, VGA and S-Video) which can be used simultaneously. Support is also provided for up to 4 spot monitors and each spot monitor output can be programmed in the DVR setup.

LIVE DISPLAY

The DVR displays single or multi screen images and also has several sequence modes. (standard and user definable)

recording settings to provide the best quality recording in the event of an emergency.

CONFIGURATION BACKUP

All configuration settings on the DVR can be saved to USB memory stick or a PC file remotely.

The saved data can then be uploaded to other DVR units allowing rapid deployment where more than one DVR is being installed.

EMAIL SUPPORT

The DVR can send emails to specific users to notify events such as alarm, motion detection, hard drive failure etc.

SYSTEM ORGANIZATION



SYSTEM CONTENTS

① Basic Contents







Remote Controller



Adaptor



Installation CD

Option Contents



HDD

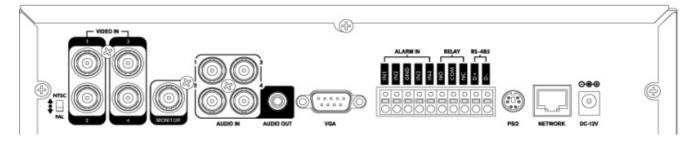
SYSTEM CONFIGUR

A. Front Panel



- USB PORT : Port for USB devices, for mouse and backup.
- SCR MODE : Shift display mode between split and full mode.
- **SEARCH :** Enter to search mode.
- MENU : Enter to system configuration menu.
- PTZ/FOCUS : Enter to control PTZ camera menu.

B. Rear Panel



- NTSC/PAL Switch
- Video Input: Connect the coaxial cables from the video sources to the BNC video in Connectors
- Monitor Out: Connect AV monitor for main system OSD
- Audio Input/Output: Connect Mic to Input / Connect Speaker to Output
- VGA Output: Provide for RGB monitor output
- Alarm in: Connect Sensor devices
- Relay: Connect Relay device for
- RS-485: Connect PTZ camera or Keyboard controller.
- PS2: Connect PS/2 type mouse
- Network: Connect RJ-45 for local network or Internet
- DC12V: Connect the Power Source from Power Adapter.

C. Remote Controller



CONNECT & POWER ON

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







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



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

The DVR begins normal operation and shows the default display of all 4 channels.

The status bar at the bottom of the screen shows

current time and date and percentage of hard drive used.

A title for each channel is shown.

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

LIVE DISPLAY

DIVISION SCREEN



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

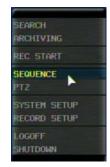


Press the Enter button. Then red square on camera title will be shown. If pressing the Enter button again by moving the navigation key, user can select the single display channel.





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



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

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

MANUAL Recording (REC START)





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



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

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

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

Key Lock Function / Log Off







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

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

An operator with ADMIN rights can choose to lock the DVR front panel to prevent any unauthorized control. Select the **KEYLOCK** button and YES.

PTZ Camera Control





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



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

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

SYSTEM SETUP



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

SEARCH ARCHIV	ING
REC STA	ART
SEQUENC PTZ	9E
SYSTEM RECORD	And the second se
LOGOFF SHUTDO	AN

DISPLAY

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

DISPLAY - OSD





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

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

CAMERA TITLE : Determines whether the camera title is displayed.

EVENT ICON : Determines whether the DVR recording status is shown at the top right of each channel display window.

BORDER : Determines whether there is a border around each channel in multi screen display mode.

MOTION SENSOR DISPLAY : If false motion recording is occurring, the operator can use this feature to determine and rectify the cause in realtime.

OFF – normal display mode.

ACTIVE – areas where motion is detected are highlighted with colored blocks.

INACTIVE – areas where no motion is detected are highlighted with colored blocks.

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

LANGUAGE: To change the Language, after selecting the language, please press the APPLY button, Then system will reboot and language will be changed.

DISPLAY - MONITOR

SYSTEM SETUP DISPLAY



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

	DEINTERLACE MODE		OFF	÷
MONITOR	ALARM POP-UP MODE		ON	÷
	ALARM POP-UP DWELL		5 SEC	÷
	MOTION POP-UP MODE		OFF	÷
	MOTION POP-UP DWELL		15 SEC	÷
			M UNDO	
		HITCH	9 ONDO	

SEQUENCE DWELL : The time that each screen is displayed in a sequence operation.

📃 🗭 🕼 🏟 📟

- **DE-INTERLACE MODE** : When recording any channels in D1 resolution (704 x 480 / 704 x 576) this should be set to ON to prevent judder during playback.
- ALARM POP-UP MODE : When set to ON, an alarm input will cause the associated channel to display full screen.
- ALARM POP-UP DWELL : Determines how long the full screen popup is displayed after an alarm input. If the alarm condition continues, the popup screen is displayed constantly.
- **MOTION POP-UP MODE** : When set to ON, motion detection will cause the associated channel to display full screen.

MOTION POP-UP DWELL : Determines how long the full screen popup is displayed after motion detection. If motion continues, the popup screen is displayed constantly.

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

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

CAMERA

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

SYSTEM SETUP > 🖳 🔛 🕼 🍈 💼 🗮 🛛 CAMERA COVERT TITLE • 1 CAM1 COLOR OFF • CAM2 2 OFF • CAM3 3 CAM4 OFF PTZ SETUP MOTION 🗩 APPLY 🛛 😏 UNDO

CAMERA : CAMERA TITLE



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

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

DISPLAY : COLOR SETUP





Click the **COLOR SETUP** menu and click the value on the BRIGHTNESS, CONTRAST, TINT and COLOR menu.

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



The selected channel is displayed in full screen.

BRIGHTNESS, CONTRAST, TINT and COLOUR can be changed as necessary.

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

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

DISPLAY : PTZ SETUP

CAMERA TITLE			ADDRE	55	PROTOCOL		BAUDRA	ΓE	
	-	1	٥	÷	pelcoD	÷	9600	÷	Ð
COLOR SETUP	-	2	1	÷	pelcoD	÷	9600	-	Ð
actur	-	3	2	÷	pelcoD	÷	9600	÷	Ð
PTZ		4	3	-	pelcoD	÷	9600	+	Ð
SETUP MOTION SENSOR									

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









Click the **PTZ SETUP** menu and click the each value on the ADDRESS, PROTOCOL and BAUD RATE menu. Change the value by button. PTZ properties can also be adjusted for each channel by selecting the ENTER.

ic

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

DISPLAY : MOTION SENSOR

CAMERA TITLE			SENSITIV	ITY					
	-	1	5	-	AREA				
COLOR SETUP		2	5	÷	AREA				
BETUP	-	3	5	÷	AREA				
PTZ	-	4	5	÷	AREA				
SETUP									
	J.								
MOTION									
SENSOR									



Click the **MOTION SENSOR** menu and decide the value on the SENSITIVITY menu. Change the value by

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





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

Blue grid squares represent detection areas.

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



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

Or press **RETURN** to bring up the motion menu to select or deselect the entire grid,.

Choose SELECT ALL or DESELECT ALL as appropriate.



R
$\langle \mathcal{O} \rangle$

Drag the grid by the left mouse.

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

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

Please note

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

SOUND

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



SOUND : AUDIO



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

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

SOUND : BUZZER





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

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

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

SYSTEM

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

DATE / TIME



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

DATE FORMAT : Determines how the date is displayed.

TIME FORMAT : Determines how the time is displayed.

NETWORK TIME SERVER SETUP

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

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

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

SYSTEM : NETWORK





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

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

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

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

WEB SERVICE : When enabled, allows remote connections using Internet Explorer or other web browsers.

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

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

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

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

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

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

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.

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

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

SYSTEM : MAIL



SERVER : The SMTP outbound email server that should be used to send email notifications.

PORT : The outbound email port number.

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

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

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

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

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



SYSTEM : USER MANAGEMENT



Press the USER MANAGEMENT menu.

By default, the DVR is configured with a user ID of ADMIN, belonging to the ADMIN group and with a password of 1234. As well as the ability to add new users, existing user details can be modified.

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

DATE/TIME	ADD			
NETWORK	USER ID			
	PASSWORD			
MAIL	GROUP ID	MANAGER	÷	
	E-MAIL		-	_
USER	E-HAIL NOTIFICATION	OFF	÷	
HANAGEHENT			_	-
Party I	OK	CANCEL		
SYSTEM				÷

Double click the **ADD** button.

To add the new user, press the **ADD** button.

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

PASSWORD: Change the password using the virtual keyboard.

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

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

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

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

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



By virtual keyboard, detailed information can be changed.



Double click the current user.

SYSTEM: SYSTEM MANAGEMENT



SYSTEM INFORMATION



- IP ADDRESS: Shows either the manual IP address entered in NETWORK setup or the IP address assigned by a DHCP server if enabled.
- MAC ADDRESS: Shows the MAC (Media Access Control) address of the DVR. It is unique no other network device has this MAC address.
- DISK CAPACITY: The first value shows the amount of hard drive capacity used by recorded footage, the second value shows the total hard drive capacity installed.
- F/W version: Shows the firmware version of the DVR.
- H/W version: Shows the hardware version of the DVR.
- VIDEO SIGNAL TYPE: The DVR automatically switches between PAL and NTSC depending on the channel 1 input signal at power on.
- DDNS SERVER : If DDNS is enabled, the host DDNS server is specified here.
- 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.



Click the SYSTEM MANAGEMENT menu.

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

SYSTEM SYSTE	serue > 📃 🗫 🎝 🧔 🖴 🖃 🗙
DATE/TIME	SYSTEM INFORMATION PRESS SYSTEM NAME HTM0412
NETWORK	LOGIN
MAIL	USER ADMIN ÷ 040 PASSHORD ÷
USER HANAGEHENT	OK CANCEL
SYSTEM MANAGEMENT	
CONTROL DEVICE	

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

	EN SETUP > Tem		🗏 🏧 🕼 🧕) 🛋 🖃 🛛 🗙		SYSTEM SETUP > SYSTEM			0 🗕	×
DATE/TIM					DATE/TIM	(
	DEVICE	USB MEM	IORY 🗧			DEVICE	USB MEMORY			
NETWORK			GET F/W		NETWORK					
MAIL	F/W VERSION	LANGUAGE	OPTION		MAIL	Check	ing update F/W list.			
USER HANAGEMENT					USER MANAGEMENT		49%			
SYSTEM MANAGEMENT			EXIT		SYSTEH HENRGEMENT		Đ	XIT		
CONTROL DEVICE			APPLY S	UNDO	CONTROL DEVICE		🔵 APPL	Y (😏 UNDO	

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

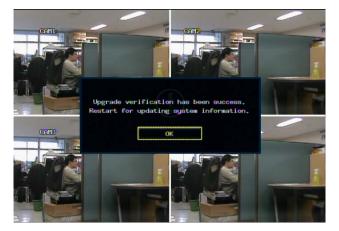
	TEM SETUP > GTEM		💻 🗫 🐠 🥥	🔺 🖴 🗎 🗙	SYST	EM SETUP > TEM			P	0		×
DATE/TIM					DATE/TIM	(
	DEVICE	USB ME	Mory 🛟			DEVICE	U	68 MEMORY		\$		
NETWORK			GET F/W		NETWORK							
	F/W VERSION	LANGUAGE	OPTION				Do you want	to ot ant				
MAIL	0EB-14-E-33	Multi	USB		MAIL		system F/W U					
USER HANAGEHENT					USER MANAGEMENT		YES	NO				
SYSTEM HANAGEMENT			EXIT		SYSTEM HANAGEMENT				EXIT			
CONTROL DEVICE			Te APPLY	UNDO	CONTROL			e AF	PLY	S UN	DO	

4) After finishing, system is rebooted.

	TEM SETUP >	👳 🍽 🐠 🌰 📾 🗆 🗙	SYSTEM SYST	h setup > Em	📃 🏞 ሳ 🧐 📤 📾
DATE/TIM			DATEZTIM		وبهديا المتقدمين
NETWORK	DEVICE USB MEMO	RY 🗘	NETWORK	DEVICE	USB MEMORY
MAIL	System Software Updat Please wait a momen		MAIL		ccess! this system.
USER MANAGEHENT	13%		USER		OK
System Hanagement		EXIT	SYSTEM		EXIT
CONTROL DEVICE	ſ	APPLY SUNDO			THE APPLY SUNDO

5) After rebooting one time, system will ask to reboot again with below pop-up window.

Press "OK" and system reboot again. After finishing reboot, F/W upgrade is finished successfully.



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

settings can be loaded.



After finishing the factory default, system will be rebooted.

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



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

SYSTEM : CONTROL DEVICE





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

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

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

PROTOCOL: Must be set by Control Device.

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

EVENT / SENSOR

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

EVENT / SENSOR: HDD EVENT





Click the HDD EVENT menu.

Then, click the value by

button to change.

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

SYSTEM SETUP > 🗏 🖗 🕼 🍥 🖷 🗐 🗶 HDD EVENT OPERATION TYPE ÷ ÷ DISABLE N/0 📥 1 ALARM • DISABLE ÷ N/0 2 2 DISABLE + N/0 ÷ DISABLE ÷ N/0 ÷ ALARM E-HAIL NOTIFICATION 😑 APPLY S UNDO



Determine the behavior of each of the 4 alarm inputs.

OPERATION: Alarm inputs can be enabled or disabled.

TYPE: Alarm inputs can be set as normally open (N/O) or normally closed (N/C).



Click the **ALARM INPUT** menu and click the OPERATION and TYPE value.

Then click the value by button to change.

EVENT / SENSOR: ALARM OUTPUT

HDD Event	OPERATION MODE	DISABLE	+ HDD EVENT	ON +
ALARM INPUT	TIGOL	ALARM	VIDEO LOSS	MOTION
ALARM	2 1			MOTION
OUTPUT	2 2	~		2
	2 3	~		1
BUZZER OUTPUT	- 🖀 4	1	V	1
E-HAIL NOTIFICATION				



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

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

Behavior settings

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

HDD EVENT : Determines whether a hard drive event triggers the alarm output.

MODE : Can be either TRANSPARENT (the output is active only when the trigger criteria is present) or

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

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

Action settings

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

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

MOTION : Determines whether motion detection on any of the selected channels will trigger the alarm output.

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

EVENT / SENSOR : BUZZER OUT





Click the BUZZER OUTPUT menu and click each value.

Then, click the value by button to change.

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

Behavior settings

OPERATION : The internal buzzer can be enabled or disabled.

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

MODE : Can be either TRANSPARENT (the buzzer sounds only when the trigger criteria is present)

or LATCHED (the buzzer sounds for a set period of time after the trigger).

DURATION : In LATCHED mode, the time that the buzzer sounds after it has been triggered.

Action settings

ALARM : Determines whether alarm inputs will sound the buzzer.

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

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

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

HDD Event	NOTIFIC	ATION		OFF
	HDD EVEN	۹T		ON
ALARM	BOOTING	EVENT		ON
		ALARM	VIDEO LOSS	MOTION
ALARM	🖄 1	1	1	2
OUTPUT	2	1	1	1
	📥 3	1	7	2
BUZZER	👛 4	4	7	1
	FREQUEN	21		30 MIN
E-MAIL NOTIFICATION				

EVENT / SENSOR : EMAIL NOTIFICATION



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

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

Behavior settings

NOTIFICATION : Email notification can be turned ON or OFF.

HDD EVENT : Determine whether a hard drive event sends an email.

BOOTING EVENT: Determines whether a reboot event sends an email.

Action settings

ALARM : Determine whether alarm inputs will send an email.

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

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

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

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

DISK MANAGE





Click the **DISK MANAGEMENT** menu.

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

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

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

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

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

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

DELETE DATA : OFF

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

DELETE DATA : ON

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

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

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

RECORD MENU



Click the **RECORD SETUP** menu.

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

RECORDING	RECORDING MODE	SIMPLE	
	SCHEDULE MODE	DAILY	÷
SIMPLE	PRE EVENT RECORDING TIME	5 SEC	÷
RECORDING	POST EVENT RECORDING TIME	60 SEC	÷

RECORD : RECORDING OPERATIONS



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

RECORDING MODE: SIMPLE/ADVANCED

Default is simple mode. If changing the recording mode as ADVANCE, second item is changed from SIMPLE RECORDING to ADVANCED RECORDING.

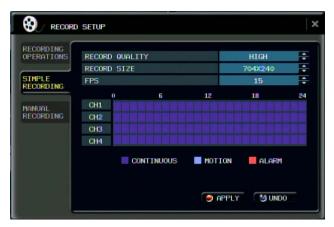
SCHEDULE MODE : Either DAILY (one schedule will apply to every day of the week) or WEEKLY (each day of the week has its own schedule).

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

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

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

SIMPLE RECORDING



Click the SIMPLE RECORDING menu.

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

RECORD QUALITY: Sets the video recording quality to Low, Standard, High or Highest for all cameras.
RECORD SIZE: Sets the video capture size for all camera to 352X240, 704X240, 704X480(NTSC) for all cameras.
FPS: Sets the Frames per second for recording across all channels. The FPS for the channels can be set to 1,2,3,7,15 or 30FPS for NTSC, and 1,2,4,7,12 or 25FPS.

ECORDING PERATIONS	RECORD QUALIT	rr -		HIGH		RECORDING OPERATIONS	RECORD		HIGH	
	RECORD SIZE			7043240	÷		RECORD	CT 7C	7048240	
IMPLE ECORDING	FPS			15		SIMPLE RECORDING	FPS		15	
ECONDING	0	6	12	18	24	RECORDING	0	CONTINUOUS	18	
INUAL	CH1					MANUAL	CH1	MOTION		
CORDING	CH2					RECORDING	CH2	ALARM		
	CH3				Contraction of Contra		CH3			
	CH4				A CONTRACTOR OF		CH4	OK CANCEL		
	CO	NTINUOUS							on 📕 Alarm PPLY 🛯 😏 UNDO	

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

ADVANCED RECORDING





Click the ADVANCED RECORDING menu.

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

There are 2 sections:

SETTING: Recording settings for each channel can be defined across a 24 hour period, in blocks (for example between 09:00 and 18:00) or for each individual hour. Note that when SCHEDULE MODE is set to WEEKLY, each day of the week can also be selected.

ACTIVATION: This section determines at what times the DVR will record and whether it is continuous recording , motion detection or alarm recording.

SETTING





RECORDING		SETTING		AC	TIVATION	
ADVANCED RECORDING		0	6	12	18	24
1ANUAL						
RECORDING		SIZE	FPS	QUALITY	AUDIO	ALARM
	💬 1	704×240	15	HIGH	1	1
	2	7043240	15	HIGH	2	2
	P 3.	704×240	15	HIGH	3	3
	📪 4	704×240	15	HIGH	4	4



Click the SETTING menu.

PERA		8		SETT	ING				ACT 1	VATI	ON	
DVF			SIZE	F	PS	QUALIT	Y	AUD	010	ALA	RM	24
ECC	-	1	704X240	15	-	HIGH	÷	1	÷	1	+	
IANU	-	2	704X240	15		HIGH	÷	2	÷	2	+	-
ECC	-	3	704X240	15	•	HIGH	÷	3	÷	3	+	10000
	-	4	704%240	15	÷	HIGH	÷	4	-	4	-	RM
	3 (frames remained				OK		Ī	CA	NCEL		



Click the SIZE, FPS, QUALITY, AUDIO and ALARM value. Then, click the value by button to change.

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

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

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

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

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

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

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

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

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

Note: The DVR supports a maximum recording rate across all channels of 120 frames per second

at 352x240 resolutions.

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

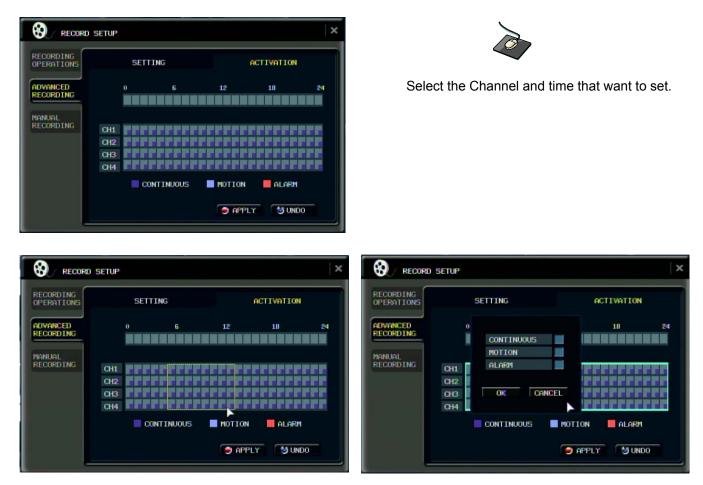
the number of available frames still remaining and must always be zero or higher.

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

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

ACTIVATION

Click the **ACTIVATION** menu.



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

MANUAL Recording (PANIC Recording)

RECORDING OPERATIONS		SIZE		FPS		QUALITY	1	AUDI	0
	- file 1	7043240	÷	15	÷	HIGH	÷	1	÷
ADVANCED	- 2	7043240	÷	15	÷	HIGH	÷	2	÷
RECORDING	- 3	7043240	÷	15	÷	HIGH	÷	3	•
MANUAL	9 4	7043240	÷	15	÷	HIGH	÷	4	•
		AL RECORDI		ME			5 M	IN	
	3 fra	ames remai							



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

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

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

SEARCH

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



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

To search for a particular section of recorded footage, press the **SEARCH** button. To protect unauthorized viewing of footage, only ADMIN and MANAGER user levels can playback footage. To login as ADMIN, enter the default password of 1234 and press **ENTER**.

SEARCH : TIME SEARCH





Click the date that user want.

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

The calendar displayed on the left shows the current month.

Days highlighted in green have recorded footage.

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





Drag the time bar by left mouse.

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

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

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

The currently selected time is displayed above the calendar.

Select the PLAY to begin playback from the selected time.



By pressing **DISPLAY** or using the **CHANNEL SELECTION** buttons, it is possible to display a single screen or 4 screens in a similar way to the live display mode.



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

SEARCH : EVENT SEARCH

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





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

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

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





Click the **START** menu.

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

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



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

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

ARCHIVING





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

To archive recorded footage to USB memory stick , select the ARCHIVING button. To protect unauthorized viewing and distribution of footage, only the ADMIN user level can archive footage. To login as ADMIN, enter the default password of 1234 and press **ENTER**.

FROM	04/21/2009 14:02:07 🔹	
то	04/21/2009 14:02:07 🜩 PRE	VIEW
CH 1 📝 CH 2	🗹 СНЗ 🗹 СН4 🗹	
Include Audio	📝 Include Log 📝	
DENTOE		
DEVICE	NO EXTERNAL DEVICE	ADT
MODE	ERASING&BURNING 🗧 ST	ART



Click the each value. Then click the value by Click the START menu.

button to change

The Archiving screen allows the operator to choose exactly what to backup and to where.

Use the CURSOR KEYS to navigate around the Archiving screen. To change any value or setting:

Press **ENTER** to change the green cursor to orange.

Use the up and down **CURSOR KEYS** to change the value.

Press **ENTER** to accept the value or RETURN to cancel.

To change a tick box setting, press ENTER to toggle on or off.

FROM	04/21/2009 14:03:22	-
то	04/21/2009 14:04:22	+ PREVIEW
DEVICE	USB MEMORY	÷
MODE	ERASINGABURNING	START

FROM / TO: Start and end time to backup.
CHANNEL: Video and audio for any channel can be included or excluded from the backup.
Check the "Include Audio" and "include the log"
SELECT DEVICE: Choose between USB device.

MODE: 'Bruning' or 'Erasing&Burning'

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

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

	ABCHIVING PREVIEW	
FROM TO	ORIGINAL SIZE : 11 M 790 K	F F PREVIEW
	SIZE	
СН 1 🛃	CH 1 : 2 M 661 K	
Include f	CH 2 : 2 M 669 K	
	CH 3 : 2 M 796 K	
DEVICE	CH 4 : 2 M 724 K	
MODE	LOG : 56 B	START
	OK	



Click the OK menu.

Once all the desired archive options have been selected, highlight the START button and press ENTER.

The DVR displays a list showing the exact information to be archived and the total archive size.

If the ORIGINAL SIZE is larger than the available space on the backup media, the END TIME of the archive set is reduced accordingly.

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

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



FROM	04/21/2009 14:03:22	÷	
TO	A1/ 01/ 0000 11. 01. 00		REVIEW
CH 1	Please wait, Writing is Success!		
un I]			
Inclu			

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

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

Normal recording is unaffected by the archive process.

REMOTE CLIENT SETUP

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

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

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

Client Software Installation

🖟 RemoteAgent 📃 🗖 🔀
Welcome to the RemoteAgent Setup Wizard
The installer will guide you through the steps required to install RemoteAgent on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel < Back Next >

Insert the CD supplied with the DVR into your PC's CD-ROM drive. The install process will begin automatically and display the following screen.

Click 'Next>' to continue

🙀 RemoteAgent	
Confirm Installation	
The installer is ready to install RemoteAgent on your computer. Click "Next" to start the installation.	
Cancel	< Back Next >

Click 'Next>' to begin installation.

🛃 RemoteAgent			
Installing RemoteAgen	t		
RemoteAgent is being installed.			
Please wait			
	Cancel	< <u>B</u> ack	Next >

The DVR remote client software is installed.

🖶 RemoteAgent			
Installation Complete			
RemoteAgent has been successfully ins Click "Close" to exit.	talled.		
	Cancel	< <u>B</u> ack	<u>C</u> lose

A final install screen is displayed confirming that installation is successful. Two icons are created on the PC desktop. 'Remote Agent' is the main software package. 'Backup Player' is the software to view archive footage from the DVR.

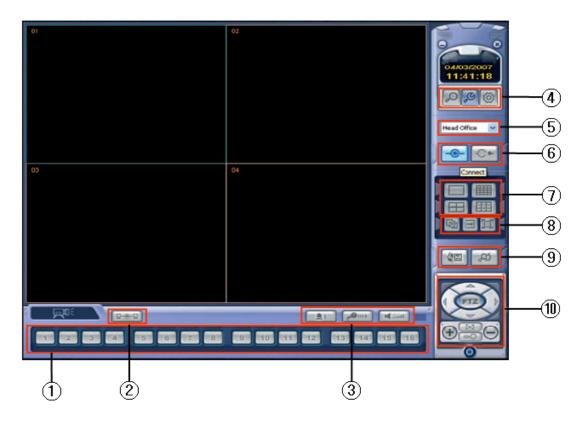
a	02	
		200
		2007-08-12 20:59:53
		×
03	04	
	At Real	PTZ
1 2 3 4 5 6 7 8		
		0

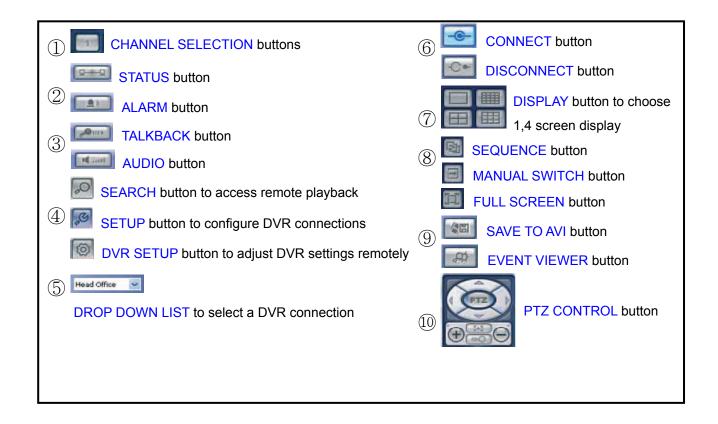
To begin using the remote client software, double click the icon on the desktop or click: Start – Programs –RemoteAgent – DVR

- RemoteAgent.

The main remote client window is displayed.

Client Software Organization





EXPLAINATION OF FUNCTION KEYS

- ① CAMERA SELECTION Button : Indicate Connected Camera No. & Select camera No to see the image.
- ② STATUS Button : Show the connected DVR.
- ③ ALARM Button : Control Alarm output.
 TALKBACK Button : Communicate between DVR and Remote Client.
 AUDIO Button : Listen live audio (ON/OFF).
- ④ SEARCH Button : Entering the Search mode to playback the image.
 SETUP Button : Entering the client software to change or check the setting.
 DVR SETUP Button : Entering the connected DVR to change or check the setting.
- (5) DROP DOWN LIST : Select the group to connect.
- ⑥ CONNECT Button : Connect DVR. DISCONNECT Button : Disconnect DVR.
- ⑦ DISPLAY Button : Change the division screen to 1,4.
- ③ SEQUENCE Button : Change the live screen automatically. MANUAL SWITCH Button : Change the live screen manually by mouse click. FULL SCREEN Button : Change to the full screen.
- (9) SAVE TO AVI Button : Save the current displayed image to AVI file. EVENT VIEWER Button : Show the current event in DVR and find image.
- 1 PTZ CONTROL Button : Control PAN/TILT/ZOOM of camera.

CREATE A CONNECT GROUP

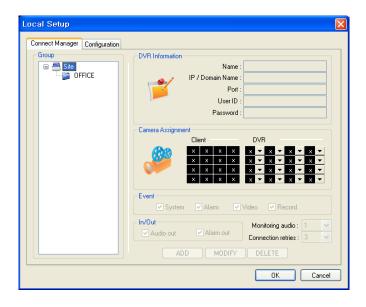
Local Configuration		×
Connect Manager Configuration		
Group	DVR Infomation Image: Post is a start of the start	
	X X	
	ADD MODIFY DELETE	

The DVR remote client software can be configured with any number of connection groups. Each connection group can consist of up to 4 DVRs. To create a connection group, click the **SETUP** button to display the Local configuration screen.

In the 'Group' window on the left, right click 'Site' and choose 'Add Group'

Input Group	Name	
Group Name	OFFICE	
	OK Cancel	

Enter a name to easily identify the connection group and click OK.



The new group is created.

DETAIL SETUP

Local Setup	
Connect Manager Configuration	1

Details for up to 4 DVRs can be added to the 'OFFICE' group. Click 'OFFICE' to highlight it and then enter the following information in the 'DVR Information' window.

DVR Information				
	N	ame :	Sales Part	
A 1	IP / Domain N	ame :	192.168.12	23.123
		Port :	6100	
	Use	er ID :	ADMIN	
	Passy	vord :	••••	
← Camera Assignme	int			
	Client		DVR	
R	1 2 3	4	1 - 2	<u>▼ 3 ▼ 4</u> ▼
	x x x	×	x 🕶 x	▼ <u>×</u> ▼ <u>×</u> ▼
	× × ×	×	<u>x 🔻 x</u>	<u> </u>
	X X X	×	X 🕶 X	▼ X ▼ X ▼

Name: Any name that will easily identify the DVR.
IP / Domain Name: The IP or DDNS address of the DVR.
Port: The network port of the DVR.
User ID: A valid user ID already setup on the DVR.
Password: The password assigned to the user ID.

In the 'Camera Assignment' window, specific channels of the DVR can be allocated to the remote client display channels. Using the drop down lists under DVR, select which channels are displayed and in to which position.

To ignore certain channels, leave the drop down as 'x'

In this case, only channels 1-4 from the selected DVR will be displayed.

Note: only one instance of each channel can be selected.

Each connection group can display a total of 16 channels from one or more DVRs.

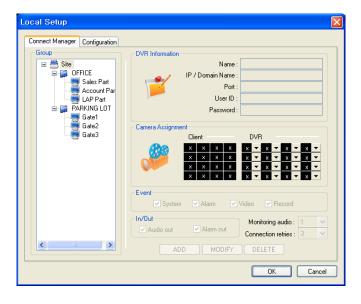
Event System	🗸 Alarm 🛛 🗸	Video 🔽 Record	
In/Out Audio out	Alarm out	Monitoring audio : Connection retries :	*
ADD	MODIFY	DELETE	

To complete the details for the selected DVR:

- -Tick the event occurrences that the DVR will send to the remote client system log.
- -Tick 'Audio out' to enable or disable the audio talkback function.
- -Tick 'Alarm out' to enable the remote alarm trigger function.

- -In 'Monitoring audio' choose which DVR audio input is transmitted to the remote client software during live display.
- -In 'Connection retries' choose the number of times the remote client will attempt to connect before giving an error.

Finally, click ADD to save all the details.

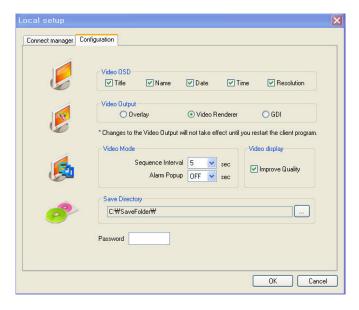


To add up to three more DVRs to this group – simply repeat the steps from the previous page in 'Enter DVR details'.

To create another connection group, repeat the steps from the previous page in 'Create a connection group'

During operation, only one group can be connected at once. For example, 'OFFICE' must be disconnected before connecting to 'Head Office

ADDITIONAL CONFIGURATION



Click the 'Configuration' tab to setup various remote client program options.

Video OSD

Select or deselect the information that is displayed for each channel when a DVR is connected.

Video Output

For best results, leave set at the default of 'Video Renderer'. Overlay mixer and GDI are provided only for backwards compatibility with older PCs.

Video Mode

Define the sequence time between each channel when in sequence mode. Also, determines the full screen popup time when an alarm is triggered on the DVR.

Video Display

For best results, leave 'Quality improve' selected.

Saving directory

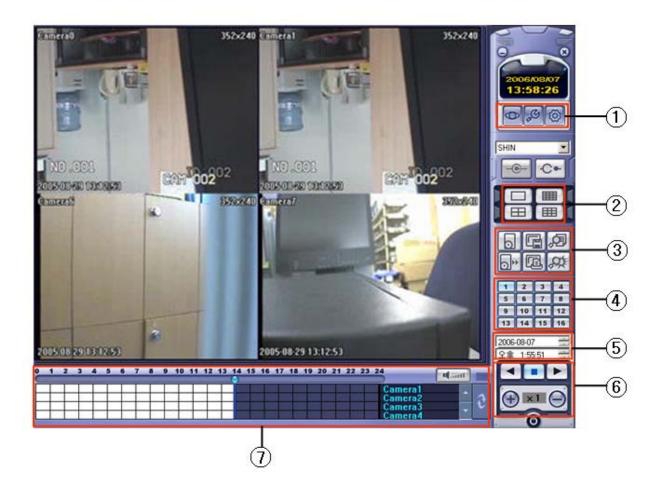
Specify the location where AVI files and snapshots will be saved to the local PC.

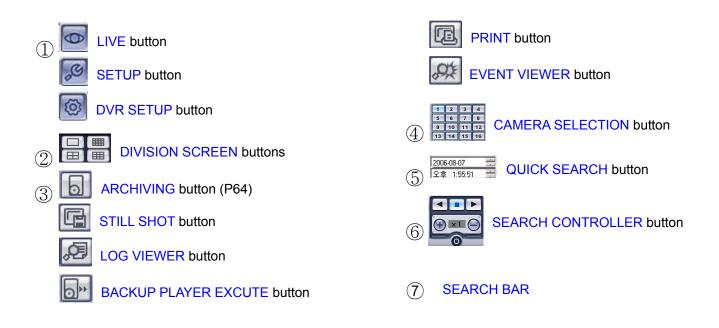
Password

If inputting the password, System ask the password when trying to enter the local setup menu.

REMOTE SEARCH

Click the **SEARCH** button to playback.





EXPLAINATION OF FUNCTION KEYS

- LIVE Button : Return to the Live mode.
 SETUP Button : Entering the client software to change or check the setting.
 DVR SETUP Button : Entering the connected DVR to change or check the setting.
- 2 DIVISIION SCREEN Button : Change the division screen to 1,4.
- ③ BACKUP Button : Can backup by channel including audio.
 STILL SHOT Button : Can save current image.
 LOG VIEWER Button : Can see all log records.
 BACKUP PLAYER EXECUTE button : Execute the backup player.
 PRINT Button : Can print current image.
 EVENT VIEWER Button :Can see all event records.
- ④ CAMERA SELECTION Button : Can select camera number.
- (5) QUICK SEARCH Button : To playback quickly, select date and time.
- 6 SEARCH CONTROLLER Button : Can control search function.
- O SEARCH BAR : Displayed recording status.

QUICK SEARCH

Int	02	
	02	0
		6/14/2007
		15:28:14
		0000
		OFFICE 🖌
03	04	
		DRA
		1234
		5 6 7 8 9 10 11 12
		13 14 15 16
		6/14/2007
		15:28:03
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 23 24	
	Camera 1 Camera 2	
	Camera 3 🔤 🔛	
	Camera 4	0

Click the **SEARCH** button in live display mode to switch to search mode.

The **TIMELINE** at the bottom of the display shows a graphical overview of recorded footage for a particular day. White blocks indicate footage for a particular time segment, whilst blue blocks indicate no footage.

6/14/2007	-
15:28:03	\$

Choose the required date by selecting and then adjusting the date value using the up and down arrows.

As different dates are selected, the **TIMELINE** changes to show the status of recorded footage for that particular date.

11	12	13	14	15	16	17	18	19	20	21
					2	-		-		
-						_				
8	18	1	1.96	100		- 1	3	8	13	1
			-	_	-		-			

Use the mouse to drag the **CURSOR** to the required time.

The exact time selected is displayed under the date.



Click to begin playback from the selected date and time.

ARCHIVING

Archiving				×
Time Range				
Start Time	2009-03-0	4 💌	01:26:57	*
End Time	2009-03-0	4 💌	01:26:57	*
Channel				
CH 1	CH 2	📃 СН З	📃 CH 4	4
CH 5 (CH 6	🗌 CH 7	CH (3
CH 9	CH 10	CH 11	CH .	12
CH 13	CH 14	CH 15	5 🗌 CH 1	16
📃 Include A	Audio			
Select A		De	select All	
		OK	Ca	ncel

Pre-recorded footage on a DVR can be archived to the local PC hard disk.

Click the ARCHIVE button to show the archiving screen.

Choose start time, end time, which channels to archive and whether to include audio.

For convenience, choosing 'Select All' will highlight all available channels (including audio) for archiving.

Click OK to begin archiving data to the PC hard drive.

STILL SHOT

Save As	? 🗙
Save jn: 🔁 DVR Remote Agent 💽 🔶 💼 📸 🏢 🗸	
File name: Save	•
Save as type: BMP type(".bmp)	el

During playback, a still image can be save to the local PC hard disk by clicking the **SNAPSHOT** button. Specify the file location, file name and choose BMP or JPG format. Click 'Save'.

The snapshot image is saved in the same style as the currently selected screen display, for example, quad screen, single screen etc.

LOG VIEWER

Sear	ch Ran	ge	Search Condition
Start	Time	2009-03-03 🔽 01:27:	29 🗘 🖌 Alarm 🗸 Motion Search
End	Time	2009-03-04 💌 01:27:	
No.	C	Date	Description
1		2009-03-03 17:46:55	Abnormal shutdown detected
2		2009-03-03 17:46:56	System started
3		2009-03-03 17:57:40	LOCAL LOG ON : SYSTEM SETUP : < ADMIN>
4		2009-03-03 19:02:52	Abnormal shutdown detected
5		2009-03-03 19:02:54	System started
6		2009-03-03 19:03:55	System shutdown
7		2009-03-03 19:06:08	System started
8	3	2009-03-03 19:18:04	VIDEO IN : #3
9	1	2009-03-03 19:18:04	TIMER RECORDING OFF : #1
10	2	2009-03-03 19:18:04	TIMER RECORDING OFF : #2
11	3	2009-03-03 19:18:04	TIMER RECORDING OFF : #3
12	4	2009-03-03 19:18:04	TIMER RECORDING OFF : #4
13	3	2009-03-03 19:18:04	TIMER RECORDING ON : #3
14	3	2009-03-03 19:18:04	TIMER RECORDING OFF : #3
15	3	2009-03-03 19:18:05	VIDEO IN : #3
16	3	2009-03-03 19:18:05	TIMER RECORDING ON : #3
17	3	2009-03-03 19:18:05	TIMER RECORDING OFF : #3
18	1	2009-03-03 19:18:06	VIDEO IN : #1
19	3	2009-03-03 19:18:06	VIDEO IN : #3
20	1	2009-03-03 19:18:06	TIMER RECORDING ON : #1
21	3	2009-03-03 19:18:06	TIMER RECORDING ON : #3
22	4	2009-03-03 19:19:00	VIDEO IN : #4
23	4	2009-03-03 19:19:00	TIMER RECORDING ON : #4
21 -			

To search for an event and playback the recorded footage, press the **EVENT SEARCH** button.

Choose the 'Start time' and 'End time'. Select which events to include in the search and click 'Search'

The event log for the selected time period is displayed.

Select an event, click 'Go to timeline' and then click OK .

Click ►to begin playback from the selected date and time.

BACKUP PLAYER



To view archives backed up from a DVR, double click the player file.

to choose which archive file to playback.

Playback of the archive file begins.

The controls under the display can be used to adjust playback direction and speed.

PRINT

Click

Print		? 🛛
Printer <u>N</u> ame: <u>\\\KKK\\h</u>	o deskjet 5100 series	▼ <u>P</u> roperties
Status: Ready Type: hp.deskjel Where: USB001 Comment:	5100 series	
Print range	<u>t</u> o;	Copies Number of <u>c</u> opies: 1 = 1 1 2 3 Collate
		OK Cancel

During playback, a still image can be printed on the local PC printer by clicking the **PRINT** button.

The printed image is in the same style as the currently selected screen display, for example, quad screen

No	Name	CH	Date/Time	Description
1	Account Part-1	1	2007-06-14 17:33:07	Recording of Camera #1 is S
2	Account Part-1	1	2007-06-14 17:33:07	Motion Ch1 Off
3	Account Part-1	1	2007-06-14 17:33:02	Recording of Camera #1 is S
4	Account Part-1	1	2007-06-14 17:33:02	Motion Ch1 On
5	Account Part-1	1	2007-06-14 17:32:57	Recording of Camera #1 is S
6	Account Part-1	1	2007-06-14 17:32:57	Motion Ch1 Off
7	Account Part-1	1	2007-06-14 17:32:36	Recording of Camera #1 is S
8	Account Part-1	1	2007-06-14 17:32:36	Motion Ch1 On
9	Account Part-1	1	2007-06-14 17:32:13	Recording of Camera #1 is S
10	Account Part-1	1	2007-06-14 17:32:13	Motion Ch1 Off
11	Account Part-1	1	2007-06-14 17:31:54	Recording of Camera #1 is S
12	Account Part-1	1	2007-06-14 17:31:54	Motion Ch1 On
13	Account Part-1	1	2007-06-14 17:31:50	Recording of Camera #1 is S
14	Account Part-1	1	2007-06-14 17:31:50	Motion Ch1 Off
15	Account Part-1	1	2007-06-14 17:31:38	Recording of Camera #1 is S
16	Account Part-1	1	2007-06-14 17:31:38	Motion Ch1 On
17	Account Part-1	1	2007-06-14 17:30:28	Recording of Camera #1 is S
18	Account Part-1	1	2007-06-14 17:30:28	Motion Ch1 Off
19	Account Part-1	1	2007-06-14 17:30:18	Recording of Camera #1 is S
20	Account Part-1	1	2007-06-14 17:30:18	Motion Ch1 On
21	Account Part-1	1	2007-06-14 17:29:53	Recording of Camera #1 is S
22	Account Part-1	1	2007-06-14 17:29:53	Motion Ch1 Off
22	A	4	2007 06 14 17.20.50	D#1 :- 0
<				>

EVENT VIEWER

During playback, any live events detected on the DVR are sent to the remote client event log. To display this, click the **CURRENT EVENT LOG** button

REMOTE RECORDING SETUP

Only the ADMIN user can configure a DVR remotely. With the exception of network settings and certain display options, any of the DVR settings can be changed.

ENTERING SETUP

Click the SETUP button, enter the correct password for the ADMIN user and click OK

DVR Name	test
User ID	ADMIN
Password	

RECORD

	ing Operations		-				Pre Event Re	Sec 🖌			
Schedule Mode Daily					-	Post Event R		SUSec V			
Noric	ced Recording	k				- 6	1.44.4.747.11	survey re		N 300 181	
H		FPS	Quality	Audio	Alam						
1	704 x 240	15	High	1	1						
2	704 x 240	15	High	2	2						
3	704×240	15	High	3	з						
4	704 x 240	15	High	4	4						
	0	6	12	18	24	Manua	Recording				
-									-	Audio	
	Set					I CH	Size	FPS	Quality	Audio	
	Set					1	704 × 240	15	High	1	
	Set	Sele	d I	Deselect							3
Alan	Set	Sele	ct.	Deselect		1	704 × 240	15	High	1	
Alan	Set	Sele	çi	Deselect		1	704 × 240 704 × 240	15 15	High High	1	
Alan	set	Sele		Deselect		1	704 × 240 704 × 240 704 × 240 704 × 240	15 15 15	High High High	1 2 3	
Alan	Set			Deselect		1 2 3 4	704 × 240 704 × 240 704 × 240 704 × 240	15 15 15	High High High	1 2 3	
Alan	Set			Deselect		1 2 3 4	704 × 240 704 × 240 704 × 240 704 × 240	15 15 15	High High High	1 2 3	
Alan	m Schedule			Deselect		1 2 3 4	704 × 240 704 × 240 704 × 240 704 × 240	15 15 15	High High High	1 2 3	
Alan	Set			Deselect		1 2 3 4	704 × 240 704 × 240 704 × 240 704 × 240	15 15 15	High High High	1 2 3	
Alan	Set			Deselect		1 2 3 4	704 × 240 704 × 240 704 × 240 704 × 240	15 15 15	High High High	1 2 3	
Alan	Set			Deselect		1 2 3 4	704 × 240 704 × 240 704 × 240 704 × 240	15 15 15	High High High	1 2 3	
Alan	Set			Deseloct		1 2 3 4	704 × 240 704 × 240 704 × 240 704 × 240	15 15 15	High High High	1 2 3	
Alan Con Moli	m Schedule 341 342 343 344 344 344 344 344 344 344 344			Deselect		1 2 3 4	704 × 240 704 × 240 704 × 240 704 × 240	15 15 15	High High High	1 2 3	
Alan Con Moli	Set			Deselect		1 2 3 4	704 × 240 704 × 240 704 × 240 704 × 240	15 15 15	High High High	1 2 3	

- Record Operations
 Schedule Mode: Select Weekly or Daily.
 Pre Event Recording Time
 - : Record image including setting time before event happened. (0 ~ 5 Second)

Post Event Recording Time

: Record image including setting time after event happened. (5 ~ 180Second) Panic recording: Disable, Auto, Manual

Panic recording time: It is related with Auto setup of panic recording

 Alarm Recording Schedule, Continuous/Motion record Schedule

Click the SET Button to set Alarm Recording. Setup the size, rec. rate, quality and audio.

CAMERA

CH	Tide Covert		Tit	0	-11	Color S CH	Brightness	Contrast	Tint	Color	
1	OH 🖌 CAM1		CAM1	м1		1	50	50	50	50	
2	Off	CAM2			2	50	50	50	50		
3	0#	CAM3			3	50	50	50	50		
4	011	CAM4				4	50	50	50	50	
TZ Se	tup										
СН	Address	_	Protocol	-	D.	dRate					
1	0	pelco		~	9600 bps	unate	~	Property			
2	1	pelco			9600 bps			Property			
3	2	pelco			9600 bps			Property			
4	3	peico			9600 bps			Property			
	Sensor	_									
CH 1		-		_							
2	5	-	Area Area	4							
3	5	-	Area	4							
4	5	÷	Area	4							
ć				-							

SOUND

cord Camera Sound Event/Senso					
	r System				
Audo					
Live Audio	On	~			
Audio Monitoring Channel	1	~			
Network Audio TX	On	~			
Network Audio RX	Off	~			
Buzzer					
Key Pad	On	~			
Remote Chi	On	~			

Convert / Title

Convert the camera and change the camera name.

- (Covert function On/Off, Camera Name).
- Color

Setup the Bright, Contrast, Tint and Color.

• PTZ

Setup the PTZ camera address, Protocol, Baud rate and Properties for detail setup.

Motion Area

Setup the motion sensitive and motion area.

Live Audio Setup

Live Audio : On/Off. Audio Monitoring Channel

- : Select audio channel for live
- Network Audio TX
- : Choose the Audio transmission.
- Network Audio RX
- : Choose the Audio receive.

Buzzer

Keypad: on/off Remote controller: on/off

EVENT / SENSOR

	m Input					DD Event						
Alarm	Operation Type					Disk	FullEs					
1	Disable V/O V											
2		Disable 🔽 N/O 🔽										
3	Disable	*	N/0									
4	Disable	*	N/0) 🗸								
Marm Outp	put			Buzzer Output				E-mail Not	lication			
Alarm	V-Los:	s Motion		Alarm	V-Los	s Mot	ion	Alarm	V-Lo		lotion	
✓ 1	1	s ™00001 ▼1	- 1		1	s Mut		I ∧iaiiii 1	1		1	
2	2	2		2	2			2	2		2	
3	V 3	V 3		3	⊘ 3			V 3	v 3		3	
₹4	₹ 4	☑ 4		₩ 4	✓ 4		4	₹ 4	☑ 4	Ŀ	4	
Ope	ration	Disable	~ [Operation		Disable	~	Notific	ation	Off	~	
M	ode	Latched	~ [HDD Ever	nt				HDD Event On 🔽		~	
Dur	ation	5 sec	~	Mode		Latched	~					
HDD	Event	On	~	Duration		5 sec	*	Frequ	ency	30 min	*	

• HDD Event DISK FULL EVENT: On/Off

• Alarm Input

Setup the Alarm Connection & Type of each channel. (Enable /Disable, Normal Open / Normal Close)

Alarm Out

Check the Alarm out event. (Alarm, Video loss, Motion)

Operation : Select usage of the Relay Connection with Alarm Sensor or not.

Mode: Select the reacted relay. (Latched/Transparent)

Duration: Setup the reacted relay time duration. (5seconds to 5minutes or Until key-in)

HDD Event : Select Alarm On & Off for Alarm out when HDD got a problem

Buzzer out

Check the Buzzer out event. (Alarm, Video loss, Motion)

Operation : Select the buzzer On & Off for buzzer sound.

HDD Event: Select Buzzer On/Off for Buzzer when HDD happened any event.

Mode: Select the reacted relay. (Latched/Transparent)

Duration : Setup the Buzzer time duration.(5 seconds to 5 minutes or until key in)

• E-mail notification

Check the E-mail notification event. (Alarm, Video loss, Motion) Notification : Select the E-mail notification On & Off. HDD Event: Select E-mail notification On/Off when HDD happened any event. Booting Event: Determines whether a reboot event sends an email. Frequency : Setup the E-mail sending time duration. (10~30Min)

SYSTEM

F/W Vers H/W Vers Video Signal	ion	23.1.0A.D 03.31.12.10 NTSC		Number of HDD IP Address MAC Address	1 192 168 150 107 00 11-5P-04-17-cr	
Disk Cape	1.500 n	156290		MAC Address	00110104170	<u>.</u>
tai ☑ Default server	use					
Server Port	28			Security	0n	
User				Password		
ID	Group	E-mail	Notity	1	Network Speed 8 Mbps	×
ADMIN	ADMIN	C-mar	No	Add Modify Remove	Overwrite Om	~

System Info

Check the DVR System information.

• Mail

Type the SMTP server name, information and user ID & password to use E-mail notification.

• Users

Add or delete any user.

Network Speed

Select the network speed.

Disk Overwrite

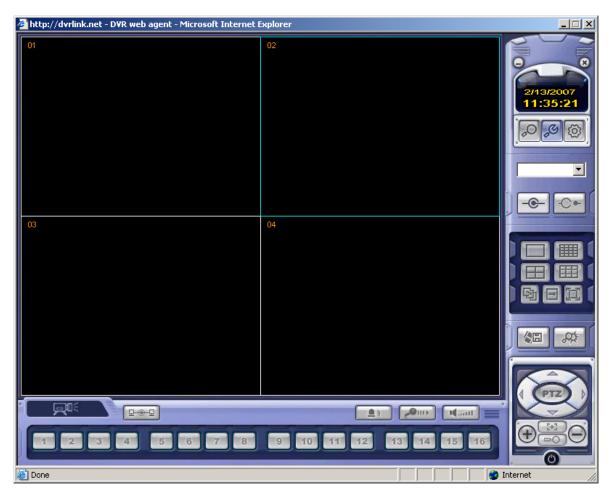
Select the On & Off for using disk overwrite.

WEB CLIENT SETUP

• WEB Client Connection

Input the IP Address or URL of the DVR in the Internet Explorer Address Bar.

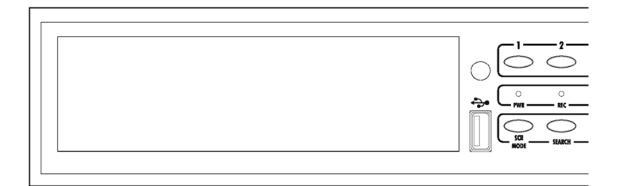
A dialog will appear to confirm download of an ActiveX control. Please click 'Confirm' or 'Continue'.



Web Client Window will appear in Internet Explorer.

All functions are the same as within the Remote Agent software.

M420AU01



Digital Video Recorder