

HELP MANUAL

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Digital Video Witness

The Digital Video Recorder Software

by Digital Video Witness

Digital Video Witness (DVW) is Say Security's trademarked line of surveillance products including Cameras, Pan Tilt Zoom Speed Domes, Professional DVR's, Network DVR's and Mobile DVR's. DVW is the perfect fit for every surveillance need from Convenience Stores with Integrated Point of Sale, School and University Campuses, or high end Government applications.

Manual

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- ➢ DN-68232

1 Attention

When the DVR starts up, you are automatically logged on as Administrator in the Windows operating system. This enables you to access all necessary network and connection protocols to configure the DVR without restrictions.

- > DO NOT open the DVR case and add/remove hardware.
- > DO NOT add users to the Windows operating system. (The DVR will no longer reboot unattended.)
- > DO NOT install any other software on the DVR.
- > DO NOT customize the Windows operating system in any way. (Setting screen savers, changing the desktop, adjusting power settings, etc.)
- > DO NOT use the DVR to browse the Internet or read e-mail. (Computer virus attacks are not covered under warranty.)



Any of these changes will interfere with the operation of the DVR and will VOID YOUR WARRANTY!!!



Safety Precautions

When selecting a place for the DVR, avoid locations with:

- Excessive heat, such as direct rays of light or heating appliances.
- Excessive moisture, dust, or smoke.
- Magnetic substances or electric wave equipment in close proximity.
- Excessive hot or cold temperature (operating temperature from 5 to 45 degrees C)
- Unstable or elevated surface.

Before proceeding further with this manual, make sure to follow the precautions below:

- Plug the power cable in after connecting all devices. Connecting a device when the power is on may cause problems. Do not forget that the DVR is automatically booted when the power cable is plugged in.
- Leave enough space around the DVR to avoid tangling cable lines and blocking ventilation.
- Keep the DVR clean of dust and foreign objects.
- In case of malfunction, do not try to repair the DVR by yourself. Contact your local distributor for assistance.

2 Installation

2.1 Installation Procedure

Follow the steps below to install the DVR:

- Place the DVR to the proper place following safety precautions on page x.
- Connect cameras to the DVR(see Connecting Pan/Tilt Drive if Pan/Tilt cameras are used)
- Connect the DVR to the communication network.
- Connect external sensors and controls
- Plug in the watchdog cable

IMPORTANT: An unconnected watchdog cable is a common mistake when installing the DVR and causes rebooting every 10 minutes that may damage the hard disk in the DVR

• Plug in the power cable

2.2 Rear View



2.3 Connecting Pan/Tilt Drive

1.3 Connecting PAN / TILT Drive



2.4 Connecting PSTN, ISDN, or Leased Circuit

1.4 Connecting PSTN, ISDN, or Leased Circuit



2.5 External Sensors



2.6 External Control Connection

1.6 External Control Connection



3 Setup

3.1 Log In Screen



DLeft click to bring up the following login screen

Username	
Password:	
Х	Cancel

*Users settings can be changed from the user management tab in the setup window.

3.2 Main Screen



Main View Screen

This is where the live images from your cameras will appear.

Left click on any image to bring it to full screen view. Left click on the image again to return to 3 normal view.



Clock

Indicates current date and time



Mode Indicator

Mode indicator will indicate whether you are in Display, Search, or Pan/Tilt. Display, Search, or Pan /Tilt mode.

Full Screen View

This button will set the main screen to "Camera only" view. The GUI (Graphic User Interface) which includes the Screen Division buttons, the Event Indicators, the Clock, Setup and Search buttons, Power button, etc. will be hidden. Right click on the screen to return to normal view. Right click to return.



Loop

Sets main view to 4 camera split and rotates view continuously through all active cameras starting with $1\sim4$, then $5\sim8$, then $9\sim12$, then $13\sim16$, then back to $1\sim4$, etc.

Click on an image, or select a Screen division button to stop rotation and return to normal mode.

5)

Setup and Search Modes

Left click to enter Setup (Camera selection, Screen division, Schedule, Audio, Motion, etc.) or Search Mode. (Review and backup recorded data)

6 Storage Indicator

Top line shows total Hard Drive space allocated and available for data storage.

Numbers in the blue box show Hard Drive space that has been used for data storage in Megabytes and Percentage of free space remaining. When percentage of free space reaches 0%, the DVR has used all available storage and will begin to overwrite (replace) the oldest recorded data.

(It is normal for the 'Free Space' indicator to read ' 0% Free' once the DVR has started overwriting the oldest data. This number will not change unless you reallocate (erase) the storage drive.)



Power Button

(8)

Left click on the power button in Display mode to turn off the DVR. Unit will stop recording and turn itself off. Use the Power switch (on the front of the DVR) to restart the unit.

Camera, Sensor, and Control -Relay Event Indicators

Each numbered button corresponds to the similarly numbered device in each category. Camera indicators will flash when a camera detects motion. Sensor indicators will flash when a device (Glass break or motion detector) is tripped.

Control indicators will flash when a relay (Alarm, siren, strobe, etc.) has been activated. Control relays may also be manually activated by left clicking on the indicator. Click on it again to deactivate.

(3) Screen Division Selections

Select the number of cameras you wish to view on the main screen. Choose 4, 6, 9, 10, 13, or 16 camera splits

The cameras that will appear in each view are assignable in setup under "Screen Division"

Deft click on any image to bring it to full screen view. Left click on image again to bring it to normal view.

DLogout Button

This button logs out the current user.

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3.3 Hardware Setup (cameras)

User M Hardwa	fanagement re Setup	Audio Setup	etup Becc	System Setup rding/Display	Storage Setup	E- Screen D	Map Setup vision	Copyright	View Log
- Camera Setup	a setup 2 Name	3 Sensor	(Motion]	S S P/T Type	(Emergency)	Sensor se Setup NC/	tup NO [Carr	era Preset]	
1	POSITION1	1		KRE-301 RX	▼ NoUse ▼	₩ 1 <u>N</u>	c 🗍	NoUse 💌 🔺	C Use alarm
▼ 2	POSITION2	2		KRE-301 RX	▼ NoUse ▼	₹ 2 <u>N</u>	c 🛛	NoUse 💌 🚽	Not use alarm
∀ 3	POSITION3	3		KRE-301 RX	▼ NoUse ▼	₩ 3 N	c	NoUse 💌	
☑ 4	POSITION4	4		KRE-301 RX	▼ NoUse ▼	▼ 4 <u>N</u>	c /	NoUse 🔻	Recording time
₹ 5	POSITION5	5		KRE-301 RX	▼ NoUse ▼	▼ 5 <u>N</u>	c 🗍	NoUse 💌	motion
₽ 6	POSITION6	6		KRE-301 RX	VoUse V	₩ 6 <u>N</u>		NoUse 💌	
7	POSITION7	7		KRE-301 RX	▼ NoUse ▼	₹7 <u>N</u>		NoUse 💌	1 sec 💌
▼ 8	POSITION8	8		KRE-301 RX	▼ NoUse ▼	▼ 8 <u>N</u>	c	NoUse 💌 🗸	
1 1 <t< th=""><th></th><th></th><th>· : 00 · · · · · · · · · · · · · · · · ·</th><th>~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00</th><th></th><th>0 Sec 0 Sec 0 Sec 0 Sec 0 Sec 0 Sec 0 Sec 0 Sec 0 Sec 0 Sec</th><th>I Cam I Cam I Cam I Cam I Cam I Cam I Cam I Cam I Cam I Cam</th><th>era 1 era 2 era 3 era 4 era 5 era 6 era 7 era 8</th><th></th></t<>			· : 00 · · · · · · · · · · · · · · · · ·	~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00 ~ 00 • ; 00		0 Sec 0 Sec 0 Sec 0 Sec 0 Sec 0 Sec 0 Sec 0 Sec 0 Sec 0 Sec	I Cam I Cam I Cam I Cam I Cam I Cam I Cam I Cam I Cam I Cam	era 1 era 2 era 3 era 4 era 5 era 6 era 7 era 8	
							Save	Close	Help

Hardware setup allows users to modify external devices configurations, such as cameras, sensors, and controls.

[Setup]

Check the box to use the camera.



[Name]

Type in the camera names. Up to 14 characters are allowed.



[Sensor]

You can connect sensors to available cameras. This functions enables cameras to record automatically when the connected sensor (s) is triggered.

To connect a sensor to a camera, type the number of the sensor in appropriate camera number. If you wish to connect to multiple sensors to a camera, type sensor numbers in the box, separating them by comma.

Example, in order for Camera 3 to start recording when Sensor 1 or Sensor 3 is triggered, type "1, 3 " in [sensor] box against Camera 4.

5 [P/T] Check

Check the box if the camera is on PAN/Tilt type. [Type]

Use the scroll bar to select PAN/TILT camera model from the list. This option box is disabled if [P/T] box is not selected.

[Motion]

You can link cameras to other available cameras. This function enables linked cameras to record automatically when the main camera detects movement.

To link a camera to another camera, type the number of the camera you wish to connect in appropriate camera number. If you wish to connect multiple cameras to a camera, type camera numbers in the box, separating them by comma.

Example: In order for Camera 5 to start recording when Camera 1 or Camera 2 detects motion, type liß [Motion] box against Camera 5

[Emergency]

Select a preset location where the Pan/Tilt camera will return to when any linked sensor is triggered.

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Hardware Setup (sensors) 3.4

User N	Management	Audio Set	up	System Setup	Storage Setu	up E-M	lap Setup Cop	yright View Log
naiuwa	are setup	Motion Setup	Record	ng/Display	Schedule Setup	Screen Div	ision Network Se	stup Site Information
Camera	a setup					n Sens Qt	* <u>3</u>	
Setup	Name	Sensor	[Motion]	-/I Iype	[Emergency]		U [Lamera Preset]	•
	POSITIONI			KRE-301 RX	Violuse V		NoUse	Use alarm
₩ 2	POSITION2		!	KRE-JUI RX	Vouse V		NoUse NoUse	O Not use alarm
IM 3 IM 4				KRE-SUL NA			Nouse Nation	Becarding time
♥ 4 ⊒ 5		5					Nouse Nelles	by sensor,
	POSITIONS	6			V Nollas V		Nollee	motion
7	POSITION7	7		KRE-301 RX	▼ Nollse ▼		Nollse	
R 8	POSITION8	8		KBE-301 BX	Vollse V		Nollse 1	1 sec 💌
 ▼ 1 ▼ 2 ▼ 3 ▼ 4 ▼ 5 ▼ 6 ▼ 7 ▼ 8 				00 : 00 00 : 00 00 : 00 00 : 00 00 : 00 00 : 00 00 : 00 00 : 00 00 : 00 00 : 00 00 : 00 00 : 00 00 : 00 00 : 00		0 Sec * 0 Sec 0 Sec 0 Sec 0 Sec 0 Sec 0 Sec 0 Sec 0 Sec 0 Sec *	I Camera 1 I Camera 2 I Camera 3 I Camera 4 I Camera 4 I Camera 5 I Camera 6 I Camera 7 I Camera 8	
							Save Close	Help

[Setup]

Check the box to enable sensors. Uncheck the box to disable sensors. Sensor inputs are standard on Rack Mount units and optional on Desktop units. If your unit does not have sensor inputs then do not use this function.



[NC/NO]

Choose a sensor type. Click the button to switch between [NC] and [NO] sensor types.

- NC = Normally Close type. If the door/object with the sensor installed is not closed, the sensor will trigger.
- NO = Normally Open type. If the door object with the sensor installed is not open the sensor will trigger.



3 [Camera Preset]

Enter the desired camera in the text field. Set the preset for the camera to allow the specified camera to Pan/Tilt/Zoom to a location when a sensor has been triggered.

[Use alarm]

(4)

6

Selecting [Use alarm] will enable the built in internal speaker to beep if a sensor is triggered. The speaker however will not beep if the corresponding camera schedule is set to Continuous Recording.

[Recording Time]

Select the number of seconds to record when a sensor is triggered. This function will not work if the recording schedule is not set to Sensor or Motion

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3.5 Hardware Setup (controls)





[Setup]

Check the box to use the controls.



[Name] Type in (

Type in control names. Up to 14 characters a allowed.



[Auto On/Off]

Auto function automatically activates controls during selected time. To enable Auto function choose the time from scroll list. Default is set from 00:00 to 24:00.

[Sensor]

To connect a sensor to a control, type the number of the sensor on the appropriate control number.

If you wish to connect multiple sensor a control, type the sensor numbers in the box, separating them by commas.

Example: In order to tun on Control 3 when Sensor 1 or Sensor 2 triggers, ty "1,2" in the box against Control 3.



4

[Working sec]

Assign how long the control will stay active once it is triggered. Maximum i 255 seconds and default is 0 seconds

3.6 Hardware Setup (External Monitor)

User M Hardwa	Management are Setup	Audio Se Motion Setun	tup Becordi	System Setup ng/Display	Storage Setup	E-Map Screen Divisio	Setup Copyrig	ht View Log
Camera	a setun		1			- Sensor setup		
Setup 1 2 3 4 5 6 7 4 7 4	Name POSITION1 POSITION2 POSITION3 POSITION4	Sensor 1 2 3 4 5	[Motion]	P/T Type KRE-301 RX KRE-301 RX KRE-301 RX KRE-301 RX KRE-301 RX KRE-301 RX	Emergency	Setup NC/ND	[Camera Preset] NoUse NoUse NoUse NoUse	 Use alarm Not use alarm Recording time by sensor,
▼ 6 ▼ 7 ▼ 8	POSITIONS POSITION6 POSITION7 POSITION8	6 7 8		KRE-301 RX KRE-301 RX KRE-301 RX	NoUse NoUse NoUse NoUse	▼ 6 NC ▼ 7 NC ▼ 8 NC	NoUse V NoUse V NoUse V	1 sec 💌
Setup V 1 V 2 V 3 V 4 V 5 V 6 V 7 8	Nam		Auto ON : 00 • 1 : 00 • 1	//OFF time ~ (00 - : (00 -)) ~ (00 - : (00 -)) ~ (00 - : (00 -)) ~ (00 - : (00 -)) ~ (00 - : (00 -)) ~ (00 - : (00 -)) ~ (00 - : (00 -)) ~ (00 - : (00 -)) ~ (00 - : (00 -)) ~ (00 - : (00 -)) ~ (00 - : (00 -)) ~ (00 - : (00 -))	Sensor Worki	ng sec	© Camera 2 ✓ Camera 2 ✓ Camera 3 ✓ Camera 4 ✓ Camera 5 ✓ Camera 6 ✓ Camera 7 ✓ Camera 8	3
1						s	ave Close	Help

D[Setup time (sec)] Select time for displaying a channel on the external monitor.

[Tip]

Images from external monitor output use Split Screening Method instead of Consecutive

Conversion Method when using models DN 3416 and DN 34216. It might not indicate set item for external monitor.

In case of DN6816 and DN68232, the screen on the external monitor is the same as seen on the DVR.

The external monitor out is not available with DN34XX, DN35XX and DN68XX.

[Camera]

Select the channel you wish to display on the external monitor.

3.7 Motion Detection

Liser Management	Audio Setur	Sustem Setup	Storage Setup	E-Man Setun Convidt View Log
Hardware Setup	Motion Setup	Recording/Display	Schedule Setup	Screen Division Network Setup Site Information
	2			Sensitivity: Less More Alarm(M) 00 - H 00 - M 00 - M Control 1 [Time] 0 + H 0 - M 0 - S Control 1 [Time] 0 + H 0 - M 0 - S Control 1 [Time] 0 + H 0 - M 0 - S Control 1 [Time] 0 + H 0 - M 0 - S Individual camera adjustment Brightness Hue Contrast Color Default Default
Set quad rotation time Full screen when moti Full screen when sens Delay time(sec)	on 3 sor 0	All	Camera Setup Setup for all cameras — Color of motion area-	Area clear Area draw
				Save Close Help

1)[Camera]

Select the camera you wish to setup. The description below is related to the camera you selected here



[Detection Area]

To enable cameras to record automatically by motion detection, you must select the detection areas. To select detection area, place the mouse cursor over the channel screen and drag the cursor in any direction you wish. You can assign up to 5 separate areas for each camera.

3 [Sensitivity]

Change sensitivity of motion detection. Default value is set to 15 and it is the recommended value.

[Alarm]

If the box is checked, the internal speaker will beep when the camera detects motion.

The speaker however will not beep if the camera is set to Continuous Recording mode in Scheduled Setup (see page page 27). The speaker's activation time can be set by the scroll lists.

[Control]

When the camera detects motion, the connected control will activate for the designated time.

Llear Management	Audio Sotun I Sustem S	ahun Sterane Satur E Man Satur Canuinkt View Lag
Hardware Setup	Motion Setup Recording/Display	rup Storage Setup E-map Setup Copyright View Log V Schedule Setup Screen Division Network Setup Site Information
		Camere Sensitivity: Less More S S S More More Control Image: Control Image: Control More More More More More S O More More More Control Image: Control Image: Control More More More Area clear Area draw Individual camera adjustment More More Brightness Hue Contrast Image: Contrast Image: Contrast Image: Contrast Color Default Default Default Image: Contrast Image: Contrast Color Default Image: Contrast Image: Contrast Image: Contrast Image: Contrast Color Default Image: Contrast Image: Contrast<
		All Camera Setup
Set quad rotation time Full screen when motio	an 🗾	Setup for all cameras Area clear Area draw
Delay time(sec)	0 Vo full screen	Color of motion area
		Save Close Help

[Object Watch] To use the Object Watch function, select the camera number and check the [Object Watch] box in surveillance mode, if motion is detected within the Object Watch setup area, the cell color of the Object Watch will change.



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User Management Audio Setup System Setup Storage Setup E-Map Setup Copyright View Log Hardware Setup Motion Setup Recording/Display Schedule Setup Screen Division Network Setup Site Information Camera 1 2 3 4 Sensitivity : Less
Camera I 2 3 4 Sensitivity : Less More
5 6 7 8 Alarm(M) 00 • H 00 • H
Set quad rotation time Full screen when motion Full screen when sensor Delay time(sec) No full screen No full screen Save Close Help

[Area Clear]

Delete Detection Area for selected camera. To manually delete an area, simply drag the detection area outside the channel screen.



[Area Draw]

Assign an entire channel view as a detection area.



3 [Camera Adjustment]

Adjust brightness, hue and contrast for each camera. Caution: Adjusting these options will affect the recorded data.

[Color] 4

If the camera is black and white, click [Color] to change the channel into Black and White. The default is set to Color for all channels.



5 [Default]

Set values in (10) and (11) back to default.



6 [Set quad rotation time]

Select the rotation time for Channel Rotation.



[Full screen when motion]

The channels of the cameras specified in this box will change to full screen if they detect motion. If you wish to select multiple cameras, type the camera numbers in the box, separating them by a comma.



8 [Full Screen when sensor]

The channels of the cameras specified in this box will change to full screen if a sensor is activated. If you wish to select multiple cameras, type the camera numbers in the box, separating them by a comma.

[Delay Time (sec)]

Delay Time works in conjunction with [Full screen when motion], and will freeze the channel if motion is detected on cameras with [Full screen when motion] enabled. To enable Delay Time, select the number of seconds from the scroll list.



[No full screen]

Cancels options set on [Full screen when motion] and [Delay time].



[Color of motion area]

When a camera detects motion its channel will highlight the Detection Areas by the color you select here (Red or Green).

Recording/Display 3.8

Digital	Video Witr	iess 5.1 SITE Setup							? 🗙
Use	er Manageme	ent Audio Setup	Becon	System Setup	Storage Sei	tup E-M	ap Setup	Copyright	View Log
	iwale setup		necon	3	criedule setup	4 scieen biv	(5)	6	Site monitation
	Camera	Gecord Frame	fps	Emergency Frame	fps	Resolution	Record Quality	Trans Quality	_
	All		15		15	320x240 💌	Normal 💌	Normal 💌	
	1		15		15	320x240 💌	Normal 💌	Normal 💌	
	2		15		15	320x240 💌	Normal 💌	Normal 💌	
	3		15		15	320x240 💌	Normal 💌	Normal 💌	
	4		15		15	320x240 💌	Normal 💌	Normal 💌	
	5		15		15	320x240 💌	Normal 💌	Normal 💌	
	6		15		15	320x240 💌	Normal 💌	Normal 💌	
	7		15		15	320x240 💌	Normal 💌	Normal 💌	
	8		15		15	320x240 💌	Normal 💌	Normal 💌	
0	Default	Use emergency fr	ame rate c	n motion			Save		telp



[Camera] Display camera numbers.

[Rec. Frame]

You can change the recording frame rate of each camera by sliding the scroll bar.

(3)

You can change the recording speed of each camera in case of emergency.

[Emergency Recording]



[Sensor]

You can change the image resolution of each camera. 320x240 of 640x480 (384x288 or 768x576 PAL) are recommended. The DVR may automatically adjust the frame rate when selecting 640x480 (768x576 PAL).

[Rec. Quality]

You can change the quality of the recording for each camera. The higher recording quality the more storage space is needed.

Example: In order to turn on Control 3 when Sensor 1 or Sensor 2 triggers, type "1,2" in the box against Control 3.



[Transfer Quality]

You can change the quality of the transfer image for use during transmission. The higher transfer quality the more bandwidth is needed.

[Default]

Change all the setting to the default values.

3.9 Schedule Setup

- > Schedule setup allows you to determine what mode your cameras will operate in at any given time of day.
- Continuous: Cameras will record continuously.
- Motion: Cameras will record only when motion is detected.
- Sensor: Cameras will record when triggered by associated sensors.
- Prealarm: Cameras will record events up to 5seconds before motion is detected.

Place a checkmark in the box to enable the mode(s)

Removing the checkmark from all four options will set the camera to "Look Only" mode. (No video will be recorded) You may use more than one mode on each camera.

- > Supported modes include:
- Look Only (No record)
- Continuous Record (Disables Motion, Sensor, and Prealarm functions)
- Motion
- Sensor
- Motion + Sensor
- Motion + Prealarm
- Sensor + Prealarm
- Motion + Sensor + Prealarm

Digital Video W	itness 5.1 SIT	E Setup					?	×
User Manage	ment A	udio Setup	System 5	Setup SI	torage Setup	E-Map Setu	p Copyright View Log	
Hardware Setu	p Motion	Setup Re	ecording/Displa	ay Schedul	le Setup	Screen Division	Network Setup Site Information	
Samera							3	
U	Camera 1	Weekday	Saturday	Sunday/Holiday			Simple mode	
	00:00-01:00	M:S	M:S	M:S				
2	01:00-02:00	M:S	M:S	M:S			Baundanada	
3	02:00-03:00	M:S	M:S	M:S				
	03:00-04:00	^(2)	M:S	M:S				
4	04:00-05:00	M:5	M:S	M:S			M: Motion	
51	05:00-06:00	M:S	M:S	M:S			🔲 S: Sensor	
<u> </u>	06:00-07:00	M:S	M:S	M:S			P. Prealarm	
6	07:00-08:00	M:S	M:S	M:S				
71	08:00-09:00	M:S	M:S	M:S			6	
	09:00-10:00	M:S	M:S	M:S			Convito S	
8	10:00-11:00	M:S	M:S	M:S				
	11:00-12:00	M:S	M:S	M:S				
	12:00-13:00	M:S	M:S	M:S				
	13:00-14:00	M:S	M:S	M:S			Catholica ()	
	14:00-15:00	M:S	M:S	M:S			Secholiday	
	15:00-16:00	M:S	M:S	M:S				
	16:00-17:00	M:S	M:S	M:S				
	17:00-18:00	M:S	M:S	M:S				
	18:00-19:00	M:S	M:S	M:S				
	19:00-20:00	M:S	M:S	M:S				
	20:00-21:00	M:S	M:S	M:S				
	21:00-22:00	M:S	M:S	M:S				
	22:00-23:00	M:S	M:S	M:S				
	23:00-24:00	M:S	M:S	M:S				
-								
						Save	Close Help	
								-

[Camera]

Select the camera you wish to setup. All the descriptions below are related to the selected camera.

[Setting Recording Mode]

The table displays recording mode for every hour. To change Record Mode, click on the hour you wish to change (you can drag the mouse to select multiple boxes. The selected time will be highlighted in blue. Then change the mode from Record Mode (4) setting.

To be exact to minutes click on the time you wish to change and a horizontal bar will appear.

11:00 11:37

[Simple/Advanced Mode]

In "Simple" mode, all days (Weekdays, Saturdays, and Sunday/Holidays) are set on a single 24 hour timeline. Any time adjustments you make will apply to all days.

In "Advanced" mode, Weekdays, Saturdays, and Sunday/Holidays each have their own 24 hour timeline.

Simple mode Advanced mode Advanced mode

[Copy To]

To copy the camera's schedule to other cameras, click Copy To and select the camera number you wish to copy to.

[Record Mode] (4)

Select Record Mode for selected time interval. If no mode is selected, the system will not record. Default isMotion & Sensor Record for 24 hours for all date of the year

Recording	<u>Support</u>
mode	Mode/c
	•
• C: Continuous Rec.	• Cor
• M: Motion Rec.	• M
• S: Sensor Rec.	• S
• P: PreAlarm Rec.	• Pre
	· Concor (

ed Recording combinations No rec. ntinuous rec. lotion rec. ensor rec.

- Alarm Rec.
- Sensor & Pre Alarm rec • Motion & Pre Alarm rec
- Motion & Sensor rec
- Motion & Sensor & Pre Alarm rec.

Motion Recording, Sensor recording, and Pre Alarm Recording cannot be enabled in conjunction with Continuous recording.

[Set Holiday] 6

You can set any specific days as holiday.

28

Schedule Setup Holiday 3.10

)		2	007.0	4		1000	Holiday	0	 Rotate	
**		2	007.0	4		>>			1	
Sun	Mon	Tue	Wen	Thu	Fri	Sat				
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						-			
_						Today				
) lotate	9	ļ	None			•	<)
				0		6				

[Calendar] (1)

Displays a calendar where you can design any date as a holiday.

- << Move to previous month. •
- >> Move to next month.

[Rotate]

2)

To set the selected day(s) as monthly holic select [Monthl from the select [Month] from the scroll list. To set yearly holiday, select [Year] from the scrc list. Leaving the option None will designa the selected day(s) as holiday for that spec month and year.



[Rotate]

Displays the list of designated holidays by time.



[Add]

Click to add selected date(s) as holiday.

[Delete]

To delete a designated holiday from the list.

3.11 Screen Division



3.12 Network Setup

User Management Audio Set Hardware Setup Motion Setup	up System Setup Recording/Display	Storage Setup Schedule Setup	E-Map Setup Screen Division	Copyright	View Log Site Informatio
Type of connection					
LAN/PSTN/ISDN/LEASED CIR	CUIT(Router)				
Live video stream bandwidth No Max Acceptable Emergency setup Motion for Emergency Message Sensor for emergency 1 2 3	mit v + + 4 5 6 7 8	10) 11) 12) 13) 14) 15)	16		
Transfer time	30 💌				ons
C Emergency phone numbers	<u></u>			Network Port Setti	ng
Emergency IP address					
Use E-Mail Service	Recipient				
			Save	Close H	elp

Modem setup tab contains the settings for communication of the DVR. In the description below, "the Site" is referring to the DVR itself, and the Center PC is referring to the PC connected the DVR.

[Type of Connection]

Click "LAN/PSTN/ISDN/LEASED CIRCUIT/ROUTER" if you have the DVR installed on a LAN (Local Area Network) or if you use the optional 56K modem to provide remote access to a computer with the "DVR Center" software installed.

If the DVR is installed on a LAN with a router or gateway you may have to 'Port Forward' the incoming signal from the remote 'Center' computer. Some DSL and Cable modems also require 'Port Forwarding'. Consult your modem manual or network administrator for help on ' Port Forwarding'.

If your connection requires port forwarding, the default ports for the DVR are Ports 8080 through 8089. Enable the ports for TCP protocol.

To disable remote connection, check the opt box [No connection].

0

[Live Video Stream Bandwidth] Limit the amount of Data transmitted from the

DVR to remote (Center) computers.

3 [Max Acceptable]

Set the maximum number of sites that can be connected to the Center. One Center PC can connect up to 120 different sites.

[Network Connections]

This buttons brings up the Network Properties Window and can be used to change your IP address. 32

a construction of the output o	? 🛛
User Management Audio Setup System Setup Storage Setup E-Map S +ardware Setup Motion Setup Recording/Display Schedule Setup Screen Division	Setup Copyright View Log Network Setup Site Information
fype of connection	
C No connection	
CAN/PSTN/ISDN/LEASED CIRCUIT(Router)	
ive video stream bandwidth	
Max Acceptable 16	
,	
Message 1 2 3 4 5 6 7 8	
6 Sensor for emergency 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	
	Network Connections
	Network Port Setting
Emergency IP address	
Use E-Mail Service Recipient	
[Motion for Emergency Message]	[Emergency phone numbers]
[Motion for Emergency Message] 8 When selected cameras detect motion, an	[Emergency phone numbers] If you use a modem to connect the D
[Motion for Emergency Message] When selected cameras detect motion, an emergency message will be displayed	[Emergency phone numbers] If you use a modem to connect the D ^v the remote, or "Center" computer, the
[Motion for Emergency Message] When selected cameras detect motion, an emergency message will be displayed automatically on Monitor window on DN C	[Emergency phone numbers] If you use a modem to connect the DV the remote, or "Center" computer, the enter the phone numbers of the remot
Motion for Emergency Message] When selected cameras detect motion, an emergency message will be displayed automatically on Monitor window on DN C PC, provided Center Software is installed an maning. To constitute ID address of the Di	[Emergency phone numbers] If you use a modem to connect the DV the remote, or "Center" computer, the enter the phone numbers of the remot "Center" computer(s) that the DVR w
Motion for Emergency Message] When selected cameras detect motion, an emergency message will be displayed automatically on Monitor window on DN C PC, provided Center Software is installed an running. To specify the IP address of the Po with Center program installed eneter the IP	[Emergency phone numbers] If you use a modem to connect the DV the remote, or "Center" computer, the enter the phone numbers of the remot "Center" computer(s) that the DVR w send the emergency message to. If the DVR fails to connect to the first number
[Motion for Emergency Message] When selected cameras detect motion, an emergency message will be displayed automatically on Monitor window on DN C PC, provided Center Software is installed ai running. To specify the IP address of the P ⁴ with Center program installed, eneter the IP adress on [Emergency IP address].	[Emergency phone numbers] If you use a modem to connect the DV the remote, or "Center" computer, the enter the phone numbers of the remot "Center" computer(s) that the DVR w send the emergency message to. If the DVR fails to connect to the first number will dial the second number and attem
[Motion for Emergency Message] When selected cameras detect motion, an emergency message will be displayed automatically on Monitor window on DN C PC, provided Center Software is installed a running. To specify the IP address of the P with Center program installed, eneter the IP adress on [Emergency IP address]. [Sensor for Emergency]	[Emergency phone numbers] If you use a modem to connect the DV the remote, or "Center" computer, the enter the phone numbers of the remot "Center" computer(s) that the DVR w send the emergency message to. If the DVR fails to connect to the first numb will dial the second number and attem transmit the message.
[Motion for Emergency Message] When selected cameras detect motion, an emergency message will be displayed automatically on Monitor window on DN C PC, provided Center Software is installed ai running. To specify the IP address of the P with Center program installed, eneter the IP adress on [Emergency IP address]. [Sensor for Emergency] Select the sensors that will activate the	[Emergency phone numbers] If you use a modem to connect the DV the remote, or "Center" computer, the enter the phone numbers of the remot "Center" computer(s) that the DVR w send the emergency message to. If the DVR fails to connect to the first numl will dial the second number and attem transmit the message. [Emergency IP Address]
[Motion for Emergency Message] When selected cameras detect motion, an emergency message will be displayed automatically on Monitor window on DN C PC, provided Center Software is installed a running. To specify the IP address of the P ⁴ with Center program installed, eneter the IP adress on [Emergency IP address]. [Sensor for Emergency] Select the sensors that will activate the Emergency Message function. When a sensor is	 [Emergency phone numbers] If you use a modem to connect the DV the remote, or "Center" computer, the enter the phone numbers of the remot "Center" computer(s) that the DVR w send the emergency message to. If the DVR fails to connect to the first numb will dial the second number and attem transmit the message. [Emergency IP Address] If the DVR is connected to a LAN (Lagence 1)
[Motion for Emergency Message] When selected cameras detect motion, an emergency message will be displayed automatically on Monitor window on DN C PC, provided Center Software is installed a running. To specify the IP address of the P with Center program installed, eneter the IP adress on [Emergency IP address]. [Sensor for Emergency] Select the sensors that will activate the Emergency Message function. When a sensor is tripped, the DVR will send a message to the	 [Emergency phone numbers] If you use a modem to connect the DV the remote, or "Center" computer, the enter the phone numbers of the remot "Center" computer(s) that the DVR w send the emergency message to. If the DVR fails to connect to the first numb will dial the second number and attem transmit the message. [Emergency IP Address] If the DVR is connected to a LAN (Le Area Network) or to the Internet throut DVR is used to a the internet throut DVR is used to be internet throut DVR is used to be internet throut DVR is used to be internet throut DVR is used to be internet through the internet throut DVR is used to be internet through the internet the internet through the internet through the internet through th
[Motion for Emergency Message] When selected cameras detect motion, an emergency message will be displayed automatically on Monitor window on DN C PC, provided Center Software is installed an running. To specify the IP address of the Po with Center program installed, eneter the IP adress on [Emergency IP address]. [Sensor for Emergency] Select the sensors that will activate the Emergency Message function. When a sensor is tripped, the DVR will send a message to the remote, or "Center" computer.	 [Emergency phone numbers] If you use a modem to connect the DV the remote, or "Center" computer, the enter the phone numbers of the remot "Center" computer(s) that the DVR w send the emergency message to. If the DVR fails to connect to the first numl will dial the second number and attem transmit the message. [Emergency IP Address] If the DVR is connected to a LAN (Le Area Network) or to the Internet throu DSL or Cable Modem connection, yo assign the IP (Internet Protocol) addrese
[Motion for Emergency Message] When selected cameras detect motion, an emergency message will be displayed automatically on Monitor window on DN C PC, provided Center Software is installed ar running. To specify the IP address of the Pr with Center program installed, eneter the IP adress on [Emergency IP address]. [Sensor for Emergency] Select the sensors that will activate the Emergency Message function. When a sensor is tripped, the DVR will send a message to the remote, or "Center" computer. [Transfer Time (sec)] Set the time (in seconds) that the modern will	 [Emergency phone numbers] If you use a modem to connect the DV the remote, or "Center" computer, the enter the phone numbers of the remot "Center" computer(s) that the DVR w send the emergency message to. If the DVR fails to connect to the first numb will dial the second number and attem transmit the message. [Emergency IP Address] If the DVR is connected to a LAN (L Area Network) or to the Internet throw DSL or Cable Modem connection, yo assign the IP (Internet Protocol) addre the remote. or "Center" computer(s) x
 [Motion for Emergency Message] When selected cameras detect motion, an emergency message will be displayed automatically on Monitor window on DN C PC, provided Center Software is installed a running. To specify the IP address of the P⁴ with Center program installed, eneter the IP adress on [Emergency IP address]. [Sensor for Emergency] Select the sensors that will activate the Emergency Message function. When a sensor is tripped, the DVR will send a message to the remote, or "Center" computer. [Transfer Time (sec)] Set the time (in seconds) that the modem will keen the connection to the remote computer 	 [Emergency phone numbers] If you use a modem to connect the DV the remote, or "Center" computer, the enter the phone numbers of the remot "Center" computer(s) that the DVR w send the emergency message to. If the DVR fails to connect to the first numb will dial the second number and attem transmit the message. [Emergency IP Address] If the DVR is connected to a LAN (L Area Network) or to the Internet throw DSL or Cable Modem connection, yo assign the IP (Internet Protocol) addres the remote, or "Center" computer(s) y wish to receive the Emergency Messa
 [Motion for Emergency Message] When selected cameras detect motion, an emergency message will be displayed automatically on Monitor window on DN C PC, provided Center Software is installed al running. To specify the IP address of the P⁴ with Center program installed, eneter the IP adress on [Emergency IP address]. [Sensor for Emergency] Select the sensors that will activate the Emergency Message function. When a sensor is tripped, the DVR will send a message to the remote, or "Center" computer. [Transfer Time (sec)] Set the time (in seconds) that the modem will keep the connection to the remote computer open and active. Any image captured by selected 	 [Emergency phone numbers] If you use a modem to connect the DV the remote, or "Center" computer, the enter the phone numbers of the remote "Center" computer(s) that the DVR w send the emergency message to. If the DVR fails to connect to the first numb will dial the second number and attem transmit the message. [Emergency IP Address] If the DVR is connected to a LAN (L Area Network) or to the Internet throw DSL or Cable Modem connection, yo assign the IP (Internet Protocol) addres the remote, or "Center" computer(s) y wish to receive the Emergency Messa

[Use E-Mail Service] You can send an emergency recording data to your e-mail account.

If you click on [Recipient], a window as below appears

-mail Service-Emergenc	y 🛛
Mail Format	
Mail Server(SMTP)	
	ex) mail.dvr. com
From	
	ex) master@dvr.com
Subject	
Mail Authentication	
MailID	Mail Password
Mail Recipient List	
Recipients List	
(Max Recipients : 50)	ADD DEL
	Cause Class
	o ave Close

- [Mail Server (SMTP)] Enter the address of the outgoing (SMTP) mail server.
- [From] Enter the email account of the sender.
- [Subject] Enter the title of the email.
- [Mail Recipient List] Displays the list of recipients' email accounts.
- [ADD] To add a recipient to the list.
- [DEL] to delete an email account from the list.

3.13 Site Information

Site information	
Site code 100-000	
Site name Site100-000	
Location	
Model	
Distributor	
Sale Date	
Other	
Note	
	-
·	_

Site information tab contains system-related information such as Site code, Site name, Software version,... You can also adjust Surveillance mode options here.

[Site Information]

This is the Site Code you will need to enter in the Connection setup box on the remote or 'Center' computer when you connect to the DVR by modem or LAN.

You may rename the Site Code to any 7 digit alphanumeric name. (7 characters, using letters, numbers, or combination of each)

If you have more than one DVR you will wish to monitor remotely, you must use a different Site Code for each.

(Example): DVR # 1= 100-001	DVR # 2= 100-002	DVR #3= 100-003
or DVR # 1=saysc01	DVR # 2= store-2	DVR # 3= dvrmain

[Location/Model/Distributor/Sales Date/Other/Notes]

These are optional information entries.

You may fill in these boxes with information relating to your DVR for easy reference.

These entries will be viewable from the remote or 'Center' computer when you connect and enter the setup mode.

When logging into the Site from the Center PC, the system checks the validity of site code and the correct password. If either is incorrect. The system will automatically disconnect.

Dieital Video Witness 5.1 S	SITE Setup			? 🗙	1
			en lle in		
User Management Hardware Setup Moti	Audio Setup System Setup	Storage Setup E-Map Schedule Setup Screen Divisio	Setup Lopyright	Site Information	
Site Information					
		Digital Video Witness	5.1.0 Site		
Site name Site10	bo-000	-			
Location		bbrennan, ADMIN-FRZYVYS7	0. Product ID: Model 4408		
Model		DISK DRIVE			
Distributor		A Drive	COMPUTER :		
Sale Date		C Drive	766MB RAM	D.L.L	
Other		- Total Space : 100130 MB Free Space : 65780 MB	IP Address: 10.0.0.1	6 BAM	
Note	^	D Drive Total Space : 3906 MB	SYSTEM :		
	~	Free Space : 284 MB E Drive	Windows NT Version 5.1		
System Clock Manual Settin	19	Total Space : 2863 MB Free Space : 251 MB	Service Pack 2		
4/10/2007 💌 4:23	:37 PM				
Get Time Gr	et Internet Time Set Time	☑ ☑ Display camera status bar.			
	(3 Display control status bar.			
System Clock Automatic Se	tting	🛛 🔽 Display sensor status bar.			
Time Setting when Reb	Joot G	₽ 🗹 Display motion detection grid			
j Schedule i me Setting		5 🔽 Image transfer to floppy disk. L	Intick for BMP Tick for JPEG		
 Daily every 	, day	Use Intelli Search tooltip			
C Weekly Time	3 7:00:00 PM				
C Monthly					
		Date display format	M/DD 👻		
		Sensor Type 16 Sensor 💌	Control Type 16 Co	ntrol 💌	
-					
		S	ave Close	Help	
[Cam	era status bar]				
Enable	es the camera status ir	dicators on the ma	in screen The	numbered b	uttons will flash when
the car	merse detect motion	dicutors on the mu	in sereen. The	numbered o	uttons will hush when
the cal	neras detect motion.				
CA	MERA (1) (2) (3		300	10 H H	
M [Sens	sor status bar]				
	or status our j	dicators on the mai	n screen The	numbered by	uttons will flash when
	28 the Sensor status in		in screen. The	numbered bi	uttons will hash when
the ser	isors are activated.				
Place a	a check in the box ney	t to each option to	enable it on th	ne main scree	en. The status bars will
appear	in the area below the	live cameras on the	e main view s	creen.	
56	INSOR (1) (2) (3 6 6 6	7 0		
O [Cont	trol status bar]				
(4) [Con	uoi status baij			T 1	11 11
	es the control relay sta	itus indicators on th	he main screen	. The number	ered buttons will flash
when	the control relays are a	activated. You may	v also activate	a control rela	ay manually by
clickir	ng on its associated bu	itton.			
CO	INTROL (1)	3000	00		
		. 17			
(5)[D1sp	alay motion detect	ion grid]			
Ut the I	motion detection grid	is set to 'Area Dra	w' (Grid cover	s entire image	ge) in the Motion
Setup	section, a thin outline	will appear around	the outer edg	e of the live	picture when motion is
detect	ed by a camera				r
If you	solocial 'Aron Clour'	and used the custo	m masking on	tions by "dr	wing" in soveral
II you	selected Area Clear	and used the custo		uons by dra	awing in several
smalle	r motion detection gri	ids, then a thin out	ine will appea	r around the	grid that is detecting
motior	n within the picture. Y	ou may select the	color of the ou	tlines (red of	r green)
in the	Motion Setup section				
(The o	outlines will not appea	r in the recorded ir	nages.)		
(1.10)					
You e	an setup the Motion F	Detection to trigger	a Control Out	out Device	
1040				r	

36

User Management Audio S Hardware Setup Motion Setup	Setup System Setup Recording/Display	Storage Setup E-Map Setup Copyright View Log Schedule Setup Screen Division Network Setup Site Informatio
Site Information		Digital Video Witness 5.1.0 Site
Site name Site 100:000 Location Model Distributor Sale Date Other Note System Clock Manual Setting 4/10/2007		pbrennan, ADMIN-FR2YVYS70, Product ID: Model 4408 DISK DRIVE A Drive Floppy C Drive Total Space : 100130 MB Free Space : 5780 MB D Drive Free Space : 2863 MB Free Space : 2853 MB Free Space : 2851 MB
Get Time Get Interne System Clock Automatic Setting Time Setting when Reboot Schedule Time Setting C Daily every C Weekly Time 7:00 C Monthly	day	Display camera status bar. Display control status bar. Display control status bar. Display sensor status bar. Display motion detection grid Display motion detection grid W Image transfer to floppy disk. Untick for BMP Tick for JPEG W Use Intelli Search tooltip
		Date display format VYYY/MM/DD - Sensor Type 16 Sensor - Control Type Save Close Help

6 [Image transfer to floppy disk]

From 'Search' mode you can save a single still image to a floppy disk. Place a check in the box if you wish to save the image as a Windows Bitmap file (.bmp) Remove the check to save images in the JPEG format. Bitmap images are better quality, but result in a larger file size on the disk. JPEG images are lower quality, but you can save more images on a single floppy disk. (Bitmap is the default image format.)



[Date display format]

Adjusts date display format in Surveillance mode. To change the date format, select a format from the scroll list.

[8] [Sensor Type] [Control Type]

Select 4, 8 or 16 sensors/controls to display their buttons in Surveillance mode.
User Management Audio Setup System Setup Hardware Setup Motion Setup Recording/Display Sc	Storage Setup E-Map Setup Copyright View Log hedule Setup Screen Division Network Setup Site Informatic
Site Information Site name Site100:000 Location Model Distributor Sale Date Other Note System Clock Manual Setting 4/10/2007 4/23.37 PM Set Time Set Time Set Time Get Internet Time Set Time Set Time Set Time Could purchase the setting Time Setting Time Setting Time Setting Schedule Time Setting Monthly Time 7.00:00 PM Setting	Digital Video Witness 5.1.0 Site pbrennan, ADMIN-FR2YVYS70, Product ID: Model 4408 DISK DRIVE Antive Compute Poppy Total Space: 100130 MB Free Space: 65780 MB Dive Total Space: 2863 MB Dive Total Space: 2863 MB Dive Total Space: 2863 MB Free Space: 251 MB Display camera status bar. Display control status bar. Display format YYYYMM/DD Sensor Type 16 Sensor Control Type 16 Control

[Use IntelliSearch tooltip]

- Place a check in the box if you wish to see "Pop-Up" descriptions of the buttons in Search mode when you move the mouse cursor over them. This can be very useful if you have not used the Search interface before.
- > The system information area provides you with detailed information about the DVR's hardware including processor type, RAM (Random Access Memory) size in Megabytes, and the Windows operating system version in use.
- > The 'Disk Drive' window shows all installed disk drives on the DVR.
 - A: The 3¹/₂ inch Floppy Drive
 - C: The Operating System Drive
 - D: The DVR Storage Drive
 - E: The CD-Rewritable Drive

Note: If your DVR has extra Hard Drives installed, the CD-RW drive may have a different 'Drive Letter' assigned to it.

[Setting the System Clock]

Adjust the DVR's time and/or date and click the 'Set Time' button to apply. (If the DVR is connected to a network time server, use the 'Get Time' button.)

- System Clock Manual Se	etting			
4/18/2007 💌 10:	:58:38 AM 🗦		Get Time	Load default time
Get Time	Get Internet Time	Set Time	Set Time	Save the selected time

Caution: Adjusting the time backwards may cause errors in the DVR's database.

View Log 3.14

Digital Video Witness 5.1 SITE Setu	ıp		? 🛛
Hardware Setup Motion Setup User Management Audio Se	Recording/Display Schedule Setup	Screen Division Network Setup E-Map Setup Copyright	Site Information View Log
2 <u> April, 2007</u> <u> Sum Mon Tue Wed Thu</u> Sa 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 49 19 20 21 22 32 4 55 66 72 28 29 30 1 2 3 4 5 Totay: 4/18/2007 3 Remove logs before this date	04/18/2007: 		
		Close	Help

Pressing the [View Log] button will display the log information on Setup option change, search record and network connection record etc.

D [Log Entries] The log display information on the date and time, the user, location, and actions that have been done.

2 [Date and Time] You can select a date to view the recorded log entries.



3 [Remove Logs Before This Date] This sets a date to reset the logs.

3.15 User Management



The User Management tab allows the administrator to create new users and control the permissions of the various functions of the DVW software.

The administrator can block access to individual setup tabs, function buttons, and various cameras.

D[User List]

This lists all of the users for the DVW software. Click on a User to see their permissions

0

[Permission List]

This is a list of all permissions currently enabled for the selected user.

[Add/Edit User]

These buttons allow for user creation and editing. They will bring up the following menu.

3 [Auto Log Out]

Check the box to disable auto log out, other wise use the drop down menu to determine the amount of idle time before auto log out occurs.



[Default Username]

Selects the username used by the auto log on feature.



[Delete User]



1 / Edit User				
Lleer Identification				Save
User ruenuncation				Cance
Username:	Mannager			
		Entre l		Restor
Password:	******	inter i and Pa	vew usernam issword	
Carlin Daamaad		Informa	ation?	
Continiini Password.				
Permitted Functions				_
Search Button				^
Hardware Setup Tab				
Motion Setup Tab				
Recording/Display Se	etup Tab			
✓Schedule Setup Tab				
Screen Division Setu	o Tab			
Site Information Tab				
✓ User Administration T	ab			~
,				
Cheek All				
Check All				
Check All				
Camera Units				-
Camera Units				
Camera Units Camera Units POSITION1 POSITION2 POSITION3				
Camera Units POSITION1 POSITION2 POSITION3 POSITION4				
Camera Units POSITION1 POSITION2 POSITION3 POSITION3 POSITION5 EDEOLUDIC				
Camera Units POSITION1 POSITION2 POSITION3 POSITION3 POSITION4 POSITION5 POSITION6 POSITION6				
Check All Camera Units POSITION1 POSITION2 POSITION3 POSITION5 POSITION5 POSITION5 POSITION7 POSITION7 POSITION7				
Check All Camera Units POSITION1 POSITION2 POSITION3 POSITION4 POSITION4 POSITION6 POSITION6 POSITION7 POSITION8				
Check All Camera Units POSITION1 POSITION2 POSITION3 POSITION4 POSITION4 POSITION5 POSITION6 POSITION7 POSITION7				
Check All Camera Units POSITION1 POSITION2 POSITION3 POSITION4 POSITION5 POSITION5 POSITION5 POSITION7 POSITION7				
Check All Camera Units POSITION1 POSITION2 POSITION2 POSITION4 POSITION5 POSITION5 POSITION5 POSITION6 POSITION7 POSITION8				
Check All Camera Units POSITION1 POSITION2 POSITION3 POSITION4 POSITION5 POSITION6 POSITION6 POSITION6 Check All Check All				

[Add/Edit User]

Set the user name and password for the new/selected user from the User Identification area. Note that all passwords must be between six and fifty characters in length.

The permitted functions list allows the administrator to control the selected users access to program functions such as the search button or various setup tabs. It is suggested that only the administrator is the only user given access to the User Management tab.

Similarly the administrator can control what cameras a user can view from the camera unit list.

When the finished use the save button to finalize a user or press restore to return the user to their previous permission settings.

Manual

3.16 Audio Setup

ital Video Witness	5.1 SITE Setup					?
Hardware Setup User Management D Can use audio	Motion Setup Audio Setup channel 1	Recording/Display	Schedule Setup Storage Setup	Screen Division E-Map Setup	Network Setup	Site Information
Record	Not Record					
)Live						
Audio out test						
TEST						
				Save	Close	Help

[Can use audio channel 8]

Displays available audio channels. Usually one audio Channel is available. Up to 8 audio channels are available in those models with KMC-5500 capture board.



[Record]

Select camera number with which you wish to record audio together. Audio can be recorded only when video signals are captured for recording

[Live]

If you wish to listen to live audio on one channel under the surveillance mode, click on the channel you wish to listen. The selected channel must be connected with an audio input.



[Audio out test]

Select the channel to check the sound output status. [Audio out test] option appears only when an KMC-5500 capture board is intalled. It does not appear when using other sound cards.

[Tips]

If a built-in sound card is installed, 2 -way audio communication between the Center and the Site is available. Audio recording function will automatically stop when you initiate 2 -way audio communication. When using a sound card, you must change the Windows sound setup to record audio and to use 2-way audio communication . In the Surveillance mode when a channel connected with a microphone is made full screen, you can listen to the live audio together with the live image.

Note: Different models have different numbers of audio channels.

3.17 System Setup



System setup tab contains additional hardware settings, backup schedule, watermark settings and system-off settings.

[System off time]

1

Place a check in the box next to the day(s) you want the DVR to turn itself off. Set the off time in the Hour and Minute boxes. (Use the 24 Hour time format.)

Be aware that this is a complete shutdown, NOT a restart time. Your DVR will remain OFF until you use the 'Power' button on the front of the DVR to turn it on again.

[System restart time]

Place a check in the box to enable the DVR to 'reboot' itself at the specified time every day. Enter the restart time in the 'Hour' and 'Minute' boxes. (Use the 24 Hour time format.) The default restart time is 3:00 am Example: To have the DVR reboot at 11:00pm, enter 23 ~ 00

[Use watermark]

Place a check in the box to enable the DVR to use an embedded watermark when you record an image. The watermark is a digitally encoded algorithm placed into the image file to verify the integrity of the image.

If the image is altered in any way, the watermark verification will fail.

A watermarked image is usable as evidence in a court of law because it can not be tampered with.

[Display watermark protect image]

Place a check in the box to display the word 'Watermarked' on the protected image. Refer to the 'Still Image Backup' section of 'Search Mode' later in this manual for more information on the 'Watermark' function.

System off time Sunday 00 + H 00 + H<	b <mark>igital Video Witness 5.1 SITE Setup</mark> Hardware Setup Motion Setup Recording, User Management Audio Setup Sy	/Display Schedule Setup Screen Divisi stem Setup Storage Setup E-Mag	on Network Setup o Setup Copyright	Site Information
	System off time Sunday 00 v H 00 v M Monday 00 v H 00 v M Tuesday 00 v H 00 v M Wednesday 00 v H 00 v M Thursday 00 v H 00 v M Friday 00 v H 00 v M Saturday 00 v H 00 v M System restart time Veekly 1 Veekly Time 300:00 AM	Watermark. Use Watermark. Display Watermark protect image Backup S Backup settings G Easy Update! Ø Reset Model Object Watch Alam S Alarn used Control used Ø eep used Working Time Ø w H Ø w M Ø w S S Video Loss Alam Ø Beep used Working Time Ø working Time Ø Use E-Mail Service Recipient	Hardware Setup	Y Y
		ę	Save Close	Help

5 [Backup Setting]

Configure backup schedule. (see page 46)

6 [Easy Update]

To update the system software. (see page 50)

[Reset Model]

Click reset model to change modes from 16 channels to 8 or 4 channel.

[Object watch Alarm]

User can have the Object Watch function linked to Alarm, Control or Beep. Theactivation time can be defined by the user.

[Video Loss Alarm]

The DVR can be setup to beep, activate alarm or raise alert by email whenever video loss is detected. This prevents unauthorized personnel from disabling cameras.

- [Alarm used] Check this box to use > alarm and select the corresponding Control from
- [Beep used] Check this box to use beep > sound.
- [Working Time] Designate the duration > of alarm or beep sound.



[Use Email Service]

To receive video loss alert by e-mail, check the box. The email recipients then can be entered by clicking.

Digital Video Witness 5.1 SITE Setup	?×
Hardware Setup Motion Setup Recording/Display Schedule Setup Screen D User Management Audio Setup System Setup Storage Setup E	Division Network Setup Site Information -Map Setup Copyright View Log
System off time Watermark. Sunday 00 • H 00 • M Monday 00 • H 00 • M Tuesday 00 • H 00 • M Wednesday 00 • H 00 • M Friday 00 • H 00 • M Friday 00 • H 00 • M System restart time More M Vused Oo • M Ou • H 00 • M System restart time Alarm used Used Ou • H Vused Ou • H Ou • H Ou • M Sudday Time 3.00:00 AM Image Video Loss Alarm Alarm used Control used Image Video Loss Alarm Beep used Working Time 23 • H Image 23 • H Image Recipient	Hardware Setup
	Save Close Help

[VGA Card]

You can obtain high quality backup image if you use VIP function. Select the option to use VIP.

Default is "VIP unused".

VIP function can work with KMC-8416 capture card.

[Control Card Port]

Select the Com port for Control card. Correct port is selected from the manufacturer.

3 [PTZ Port]

Set the COM port for Pan/TILT. When controlling PAN?TILT from the control card, set COM Port identical to [Control Card Port].

If the PAN/TILIT camera uses RS-232'3 signal from COM Port but separate then control it with [Control Card Port] to the corresponding PAN/TILT.



Set the COM port for KWD-102. When any program error occurs it will operate for 10 minutes. If the error is not corrected within 10 minutes, this will operate every 60 minutes thereon.

This is applied only in the case of video loss. Set the COM port for KWD 102.



[Video Format]

Select NTSC or PAL according to the video method used in your region.

3.18 **Backup Settings/Calendar Setup**

Setup Backup schedule $(\mathbf{4})$ 3 2) When you select a day on the calendar n **5**e wenthu fri sa (by left clicking on it) any backup 2 3 4 5 6 7 scheduled for that day will appear in 8 9 10 11 12 13 14 the information area. The 'Title' 15 16 17 18 19 20 21 column will show the name you enter 22 23 24 25 26 27 28 29 30 when you create a backup. Schedule 6 Add The interval of time that will be backed up. (Displayed in 24-hour \bigcirc Delete (Example: Time to be backed up in picture above is from 8:30am until Week, Month, Year, or None will 8 indicate how often this backup is set to Cancel

[Media]

repeat.

3

[Title]

[Data Time]

format)

6:00pm).

[Rotate]

The hard drive, removable drive, or remote drive letter that this backup will be saved to.

[Calendar]

Use the calendar to see if you have a backup scheduled for a particular day. Click on any day to select it. The Calendar shows the currently selected day in Green. Any backup(s) scheduled for the selected day will appear in the information area.

> Click on the arrows to change the month displayed on the calendar.

Click << to go back a month. Click >> to go forward a month.

[Add] 6

Click on the 'Add' button to create a new backup schedule. The 'Add Schedule' panel will appear. This is where you will create a new backup schedule.

[Delete]

To remove a scheduled backup, left-click on the backup listing in the information area and click on the 'Delete' button. This will remove the scheduled backup from the list. This will NOT delete any backup files that were created by the schedule.

8 [Setup/Cancel]

ClickSetupto save the schedule or clickncelto exit without saving.

3.19 Adding a Backup Schedule



[Date & Time] End Date

Set the end date for the data you wish to back up.

(Example: To back up a night of data from 5:30pm until 8:30am the next morning, select the day that follows the ' Start Date.)

End Time

Enter the end time of the data you wish to back up.

(Example: To back up a night of data from 5:30pm until 8:30am, enter 8:30 AM in the End Time box.) The back up will automatically start when the End Time has passed.

Rotate Option]

Use the Rotate Option to cause your backup to repeat automatically. Back up the same period of time every week, month, or year. If a Rotate Option is used, the dates are treated differently according to the option chosen. **Example**:

Start Time "Tuesday, February 11, 2003at 5:30 PM" End Time "Wednesday, February 12, 2003

[Media List]

Displays list of available media. If the system fails to backup onto the first medium on the list, it will attempt to backup onto the secondly listed medium and so on.

The system can backup onto the following media:

- > Hard Disk Drive
- > CD-ROM
- > Portable Drive
- > Network Drive
- > Remote IP Address

[Up/Down/Delete]

> Move media up, down, or delete a media from the list.

[Add media]

 Add a medium to the list. You can add up to 8 media to the list. (see next page)

[Title]

>

Type in the title of the backup.

5 [Backup Start Time Interval After]

You may have the backup begin Immediately after the 'End Time' has passed, or you may choose to delay the backup for up to 4 hours after the 'End Time' has passed.

6 [Setup]

[Overwrite mode]

If there is not enough space to create a backup, the system will automatically delete the old data [Priority]

Set backup's priority when other backups are scheduled. Setting the option to Backup after precedent backup will place the backup in queue. Backup after current backup will ignore the queue.

In this example, if you choose the Rotate Option: Week: Every Wednesday morning at 8:30am, the previous 15 hours of data will be backed up. The numeric date, month, and year are ignored. Month: On the 12th day of every month at 8:30am, the previous 15 hours of data will be backed up. The day of the week (Tuesday, Wednesday), month, and year are ignored. Year: Every year on the 12th of February the data

will be backed up. The day of the week (Tuesday, Wednesday), and year are ignored. None: The selected backup will occur only one

time, on the selected date and time.

3.20 Easy Update

1.29 Easy Update



When you click EZ Update button, you will be required to choose the location of DN Site software package folder. The folder must contain all necessary Data folders or all files must be included in one folder.

If the data files are located in floppy disks, copy the files into the System hard disk drive.

Once you have selected the correct program folder, the DVR will check the package files for any errors then begin updating.

ct program	Copy files Easymptime	<u>ه</u>
ackage files g.	ind day - 15 Diger Anne (SDMAn or	r
NTELLIUPSITE	×	
Successfully upd	ate:Flestart system	Droball Mrobill (Cancella)
0K		

🚰 Kadicon Disinct Site Setup

3.21 Email Transmission

Email Transmission can be setup for a notification of several things. This will allow you rapid notification of anything happening that may be out of the ordinary.

Here are the supported reasons for E-mail Transmission:

- > On Emergency
- Transmits the number of motion detected camera
- Transmits the number of sensor detected camera and the image
- > On Video Loss
- Transmits the number of lost camera
- > Backup
- Transmits the selected image in the form of JPEG

3.22 **Motion Tracking**



D[Enable Camera]

Click on the camera buttons to enable motion tracking function. You must select the appropriate camera in the 'Hardware Setup' section (p. 13) before these buttons will appear.

[Current Camera]

Use the drop down arrow to select the camera you want to set up. The selected camera's live image will appear in the area on the left.

3 [Screen Value]

Click to set the value to the position showing in the camera image.

[Move Camera]

Click to move camera to values entered in the 'Pan' and 'Tilt' boxes under 'Start Position'.

[Start Position Pan /Tilt Values]

5 Use drop down arrows to set start position of motion tracking camera. Camera will return to this position when motion is no longer detected and followed.

6 [Return Start Position]

Use the drop down arrow to select how long the camera will remain in its last position after motion is no longer detected and followed.



Motion tracking tab contains the settings for cameras to track moving objects (motion tracking).

[On/Off time]

Set the range of time for the motion tracking function to be active.

Place a check in the [all] box to set the same active time range for all motion tracking cameras.

Leave the box unchecked to set a different time range for each camera.

[Start/End Times]

Use the drop down arrows to set the start and end times for the motion tracking function to be enabled. (Use 24-hour time format) Enter the start time in the upper boxes and the end time in the lower boxes. Default is 00:00 to 24:00. (Midnight to midnight)

[Disable PTZ mode]

Place a check in the box to disable manual Pan/Tilt/Zoom control on the selected camera. Manual operation of a Motion Tracking camera through the P/T/Z controls will interfere with the Motion Tracking function. The camera will not return to its configured Start position if you manually Zoom/Focus it with the P/T/Z controls.

10 [Range] [Pan]

Assign how wide the camera can move horizontally from it's starting position. The minimum value of left and right is 40 degrees and the sum of left and right value cannot exceed 360 degrees. If the sum value exceeds 360 degrees the system will adjust the angle automatically.



[Screen Value]

Click on the Screen Value button to set the Pan angle to the current camera position.



[Enable]

Place a check in the box to enable the Pan Range function for the selected camera.



Use the drop down arrow to set the minimum tilt of the selected camera, or use the 'Screen value' button to set value to current camera position.

Place a check in the enable box to enable minimum tilt function.

•		Enacle Camera	
FL	1.	Current camera	
	(5)	Start position PAN Screen volue	
	INIT	TILT Move camera Return start position	Disable PTZ mode
		Range PAN	
et values		Left Screen value 40	e minimum value of Left, Right is 1. The maximum sum of Left, Right is 2. If the value is out of range, it will
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	•	Right Screen value be	adjusted automatically.
		TILT	
T Camera fic		Minimum Screen value	

## []][Live Image]

Live view of currently selected camera. Left click on the image to adjust the camera angle.

## [Channel View]

Displays image from the selected camera channel. Clicking anywhere on the channel view will move the camera to that position.

# **(6)**[I

[PAN angle]

Adjust sensitivity of camera's horizontal movement. If the camera moves too much or too little when tracking movement, adjust the PAN angle accordingly.

## [Tilt Angle]

Adjust sensitivity of camera's vertical movement. If the camera moves too much on too less when tracking movement, adjust **TILT angle** accordingly.

## **(18)** [Sensitivity]

Adjust camera motion tracking sensitivity. If the camera reacts too much to small movements, or does not react even when there is large movement, adjust camera **sensitivity** accordingly.

### [Camera Flip]

If camera is installed in a flipped position, motion tracking may appear to work in reverse. Place a check in the box to correct this.

When there are multiple moving objects, the camera will track the most active object.

• When motion tracking is enabled on a camera, the corresponding channel will display "PAN/TILT" and "Motion tracking" on the top left corner.

• The DVR will ignore motion tracking setting when controlling the camera manually (manual control must be enabled)

• For optimal performance, decrease the camera's motion tracking sensitivity in dark places and increase the sensitivity in bright places.

### 3.23 Storage Setup



Use this option if the DVR has indicated a memory error or if the storage structure has become corrupted, or if you have added an extra hard drive.

To reallocate a drive, click on the 'Modify Storage Structure' button and then click the 'Close' button.

Use the 'Quit' button (on the main screen) to turn off the DVR.

**Restart the DVR.** 

The Storage Structure panel will appear when the DVR reboots.

### Remember, ALL DATA on allocated drives will be ERASED!!!

## 3.24 EMap



E-Map tab contains the settings fo Map. EMap is a computer map of area with designated locations of installed cameras, sensors and controls.

### [Check Emap]

Place a check in the box to enable the EMAP function. The EMAP will allow you to place a bitmap image (*.bmp) into a frame on the main view screen. (One camera will be replaced by the image.) You can place icons on the image to represent the positions of your cameras, sensors and controls. The icons will flash to indicate the associated device has been activated. Clicking on a camera icon will open that camera to full screen view.



- For a split mode you can assign which channel the E-map will be displayed (scroll list option may vary depending on DN model).
- > You can copy E-map settings to another channel of another split screen mode by clicking on and select the split screen mode and the channel number you wish to copy to.

### [User Image Copy.]

Click Find and select the image file to use as an E-map, then click Go! to display the image.

- > The DVR will automatically copy the image to its backup folder. The backup file will be overwritten when another E-Map image file is selected.
- > The image file must be in BMP format.

## 4 [Settings]

You can mark positions of the installed cameras, controls, and sensors on the Emap. To mark a device, select its type (5) (camera control or sensor) and its number. (6) Then select the device from the scroll list on the right and click the location of the device on the E-map to insert the devices icon.

- > When Device type is Camera, you can choose CCD, pinholde or Speed Dome cameras in (7).
- > When device type is Control, you can choose Light or Alarm controls in (7)
- > When device type is Sensor, you can choose Fire, Laser, or Heat sensors in (7)



# 8 [Delete Camera, control, sensor

> To delete a device from the E-map, enable Delete camera, control, sensor, and click on the device's icon on the E-Map. To delete all icons, disable Checkup Emap option.

fardware setup   Motion setup   Recording/Disp Password setup   Audio setup   Syster	Nay Schedule setup Screen division Modern setup Site information n setup Motion tracking setup Storage setup E-Map Setup
	1.Position No. 4 DIV V Copy
And the second s	
	2User Image copy(or change) Find>> Gol
	Camera         Control         C Sensor           1         2         3         4         5         6         7         8           9         10         11         12         13         14         15         16         T
	Delete camera.control.sensor
	🛈 \cdots 🚥

### [Delete Image]

To delete currently displayed E-Map, enable Delete image and click Save.



## 4 Operation

### 4.1 Pan Tilt Controls for P/T/Z Cameras



ULeft-clicking on a channel with a PAN/TILT camera will switch to single-channel view and the PAN/TILT menu will appear on the right.





3 [Date and time] Displays present date and time.



## PAN/TILT menu may vary depending on camera model.

4

5

(6)

7

### 4.2 Pan Tilt Controls

### [Go To]

Click on the 'Go To' button to enter your pre-set camera positions.

The 'Go To' button will change to 'Setup'.

Use the Pan/Tilt/Zoom controls to move the camera to the first position. Click on the '1' button to set the position. Move the camera to the next position and click on the '2' button to enter that position. You may set up to 10 pre-set positions. Click on the 'Setup' button to save your changes and test the presets you have entered.

### [Screen Division]

Click on a screen division button or click on the image to return to normal view mode. Clicking on the image will toggle between normal and full screen mode.

### [Quit]

Click on the 'Quit' button to close the Pan/Tilt/Zoom controls and return to the Main Screen.

### 4.3 Live Audio



You can listen to live audio on one channel if the channel is connected with an audio input.

- > Click on the channel connected with a microphone. A window with volume level bar will appear.
- > Adjust volume or select [Mute] if you do not wish to listen to live audio.



### 4.4 Entering into Search Mode



Search Mode allows you to quickly and easily access recorded data. If you capture an event that you need to copy or backup, you can transfer your video to a variety of removable media devices including floppy disks, CD-R, CD-RW disks, External hard drives, and network storage devices. The transferred images may be 'Watermarked' to prevent tampering and allow admissibility as evidence in the court system.

### [Calendar]

To use Search Mode click on the Calendar button to show the calendar.

Use the Arrows to select the month, then click on the day you wish to search to select it. Days which have recorded data will show up in bold type.

### [Timeline]

Shows the entire selected day in 1 hour increments. Time is shown in 24-Hour format beginning with hour 00 (Midnight ~ 12:59am) and ending with hour 23 (11:00pm ~ 11:59pm)

You may left click on the timeline to expand (magnify) the recorded data area. This can help you find a specific time more easily. You may expand the data area 2 times. Click again and the timeline will return to normal size.

### [Show/Hide Camera][Select Camera]

Click on the up arrow to show recorded data and camera buttons.

Click on the down arrow to hide recorded data and camera buttons.

(The button changes according to the panel status.

Click on the buttons to select the cameras you want to search. Select up to 16 cameras to search at the same time.



### [Recorded Data]

The horizontal lines show when data was recorded. The lines may be different colors depending on what type of recording was used, or what triggered the recording. Each camera has a recording bar, showing when an the camera has recorded.

- > Pink bar indicates Continuous Recording.
- > Blue bar indicates Motion Recording.
- > Red bar indicates Sensor Recording.
- > Green bar indicates Pre Alarm Recording.
- > No bar indicates that nothing was recorded.

### **5** [Search Time Indicator]

A thin vertical bar will indicate the current time being searched. Left click in the data area to move the bar to a different hour or minute.



### [Hour Minute]

The hour and minute values show the current time being searched. Left click on the up and down arrows to change the values. The values will also change when you click in the data area to move the Search Time Indicator.

### 4.5 Search Mode Still Image Tools



Stop Playback and select a single image to use Still Image Tools

In standard 'Search' mode, you can search up to 16 cameras > simultaneously.

NOTE: When searching multiple cameras at once, some camera images may be blank or show a still image at times. This is normal. This means there is no recorded data for those cameras at that minute of playback. (Cameras only record when there is motion) The still image is the last image recorded by a camera. During playback, the last image shown will remain in the frame until a new image replaces it.

13CH

16CH

Drop menu

#### Search Mode: Seach Tools 4.6



62

Use 'Panorama' mode to view a single camera in a series of sequential frames. Select a camera and time, and then select a screen division to determine how many sequential frames will be shown.

### [Zoom Tool]

The Zoom Tool performs 3 different functions. Left click on the button to change the function from zoom in, to zoom out, to the hand tool.



Stop playback and select an image (by clicking on it) to use the zoom tool.

Right click on an object in the image to zoom in on it.



Right click on the image to zoom out.



Right click and hold down the mouse button to 'grab' the image and move it around when you are zoomed in.

## 3 [Enlarge Image]

Left click on the button to enlarge the selected image. Click again to enlarge the image again. When the image is at maximum size (Full screen), click again to return to default recorded size.

### [Refresh Data]

 $(\mathbf{4})$ 

Left click on the button to refresh (update) the Data Area to include the most recently recorded data. (DVR is set to record during search by default, however data area does not automatically update while current day is selected.)

## 4.7 Search Mode: Playback Controls

Skip to beginning of recorded data

Skip backward frame by frame

Reverse

Play

Play forward frame by frame

Skip to the end of the recorded data

#### Search Mode 4.8

# [Print]

Left click on the Print button to print the currently selected still image.

(Stop playback and select an image by left clicking on it.)

The printed image size is determined by the image size on the screen. Use the 'Enlarge Image' tool to set the image size.

The printed image will show the image, the site code of the DVR (p.33), the date and time the image was taken, the camera number, and the watermark status.

### [Data Backup]

To save a backup of recorded data.



Bookmark		
Time information	Description	
2003/03/09/19:43:00	My Bookmark	
•		F
Add		Goto
Delete	Delete all	0k

### [Bookmark]

The Bookmark function allows you to index certain events or images for quick access through a list instead of having to choose a date, time and camera for search.

Add When you find an image or event to Bookmark, select the image by left clicking on it.

The image will move to the center of the view screen. Click on the Bookmark button to bring up the Bookmark list. Click on 'Add' to enter the image information into the list.

Delete Click on an entry on the list to select it and click 'Delete' to remove it from the list.

Delete all Click to delete all entries on the list Goto Select an entry in the list and click 'Goto' to show that image on the view screen.

## [Audio Setup]

You must enable audio save and playback in 'Audio Setup' (p.42) to use this function. Select the camera associated to the audio by clicking on the image and setting it to center screen. Click on the Audio' button to show the volume slider.

> Place a check in the 'Enable' box and adjust the volume with the slider until audio is at a comfortable level. Click on 'OK' to save your setting.

You must have a microphone and speakers attached to the DVR to use the audio function. See page 77 for instructions on setting up the DVR for audio recording.



## [Recording]

Click on the button to stop recording live images while you are in Search Mode. If the DVR is set to record at high quality and larger screen sizes in 'Motion Setup' you may notice Search functions will slow down slightly. This is norm due to the large amount of data being written to the storage drive.

When the live recording is disabled the button will have a red 'X' over it.

Use this function if you experience errors while recording backup data to a CD-R/CD-RW. (Especially when recording AVI backups.)

### 4.9 Search Mode Skip/Delay



[Skip] Speed up playback by skipping frames if playback is too slow.

[Delay] Slow down playback if images move too fast.

#### **Search Mode: Search Option Pannel** 4.10



66

### [Search Option]

Click on the Search Options button to toggle the Search Options Panel on or off. The Search Options Panel allows you to filter the information shown in the Index Search list and the Recorded Data Area.

Search Op	ption				
All	01	103 04	Q. 38 .		AN
Prealarm			67 88 0		AN
Sensor	01.02		07 08 1		AN
Motion	01	03 04	67 05 0		AN



Click on a camera number to show data from all record modes for that camera.



Click on a camera number to show data recorded in Prealarm mode.

Sensor

Click on a sensor number to show data recorded in Sensor mode.

Motion

Click on a camera number to show data recorded in Motion mode.



Select no devices

### 4.11 Search Mode: Index Search



### [Index Search] Click on the Index button to open the index search. The index search shows a frame by frame list of images captured for the currently selected minute. You may left click on an entry in the list to show that image in the view screen.

### **D**[Calendar]

Use the drop down arrow to show the calendar. Select the date you wish to search by left clicking on it.

### [Number]

Number of recorded events.



### [Sensor]

Displays sensor that triggered the recording event (if the event is of sensor recording type)

## (1) [Motion]

Displays camera that triggered the recording event (if the event is of motion recording type)

## (5) [Camera]

Shows the camera that captured the image.

# 6 [Time]

Shows the time when the recording event occurred.

No (2) Sensor	3 Motion 4	Cam	Time 6	
0001	8	08	15:48:00:050	1
0002	7	07	15:48:00:060	1
0003	14	14	15:48:00:080	
0004	11	11	15:48:00:090	
0005	5	05	15:48:00:100	
0006	16	16	15:48:00:130	
0007	8	08	15:48:00:180	
0008	7	07	15:48:00:190	T
0009	14	14	15:48:00:210	T

### 4.12 Search Mode: Object Search



Clicking this button you can go to the Object Search Mode.

Clicking this button you can start object search.



P

Clicking this button you can see the result of the object search.



Clicking this button you can add or remove the grid from view.

Clicking this button you can add or remove the search area from view.



# [Select Camera]

Select the camera to search. The object is possible only for one channel at a time.

# [Set Area]

Select the area for object search. Left clicking selects a cell on the grid and right clicking deselect.



If you did not set the search are, the following message appears requesting you to set the search area.

X
You have to select an area!
ОК



### [Set Time]

Using the scroll bar or keyboard, enter the starting time and the ending time of the search period.





## (4)[Start Object Search]

Clickin button, you can start to search. A progress status is displayed while the data is extracted. Click the Cancel button on the progress status window to stop searching. You can still view the images up to the point where the search was stopped.



### [Object Search result]

After images with object changes are detected, the search results will be displayed on the Object search window. Click the "Text button (6) to change the way the search results are shown: text only or text and image.

Select one result from the Object Search Result window, and click on the Play button to start playing back from the selected time.



[Tip]

If the object disappears and there is no motion for more than 3 seconds after the object disappears, it will be detected by the object search. In the same way, if the object appears and there is no motion for more than 3 seconds, it will be detected by the object search as well.

### 4.13 Search Mode: Audio Playback



# [Audio Playback]

If you select any single channel which has saved audio data, you can replay audio with th recorded image. (You cannot replay audio data with the multi-channel search mode.) Clic and the "VOLUME" window appears as shown on the left.

If you do not wish to listen to the saved audio, check Mute. You can adjust volume by

If you do not wish to listen to the saved audio, check Mute. You can adjust volum scrolling up or down with the mouse

### [Tips]

VOLUME

Mute

• Audio synchronization takes roughly 1 to 3 seconds to initialize and may result in some video loss. This procedure is normal.

• Audio is supported only for forward playback. Audio play is not supported for other search backward playback, frame by frame search, etc.

• When audio is playing, Skip and Delay functions will not work.
## 4.14 Backup



# [Backup] ⊌

- > Click on the Backup button to save a single still image, create an AVI file of an event, or create a Time Backup of an event. An AVI file may be viewed on any computer with Windows Media Player or similar moving image viewing software.
- > A Time Backup may only be viewed on a computer with the DigiNet Center software installed.

Backup			X
Type • JPEG Backup	Time backup	C AVI backup	C E-mail backup
Date/Time Start Friday , April 1:36:00 PM End Friday , April 1:36:00 PM Split by	20, 2007 💌 = = 20, 2007 💌 = =	BackupMedia Path :   Se Option Delete old d- insufficient Priority Backup after pr	lect media
Camera POSITION1 F POSITION5 F POSITION9 F POSITION13 F	POSITION2 POSITION6 POSITION10 POSITION14	<ul> <li>POSITION3</li> <li>POSITION7</li> <li>POSITION11</li> <li>POSITION15</li> </ul>	<ul> <li>Position4</li> <li>Position8</li> <li>Position12</li> <li>Position16</li> </ul>
Select Compressor :		DivX® 6.0 Code	IC .
AVI Caption :	[Camera No.] [	Camera Name] [Date] ['	Time] Left, Top
		Bac	ckup Cancel

### 4.15 JPEG Backup

Backup			X
Type © JPEG Backup C T	ïme backup	C AVI backup	C E-mail backup
Date/Time Start Friday , April 20 1:36:00 PM End	0, 2007 💌	BackupMedia  Path:  Select	media
Friday         April         21           1:36:00 PM         Split by	0, 2007 💌	Option Delete old data ( insufficient Priority Backup after prece	when free space
Camera POSITION1 F POSITION5 F POSITION3 F POSITION13 F POSITION13 F	POSITION2 POSITION6 POSITION10 POSITION14	POSITION3 POSITION7 POSITION11 POSITION15	POSITION4 POSITION8 POSITION12 POSITION16
Select Compressor : AVI Caption :	[Camera No.] [	DivX® 6.0 Codec Camera Name] [Date] [Time	e] Left, Top
		Backup	Cancel

If you wish to have Watermark and Frame information on the backup image, check the option box [Watermark] and [Frame Information].

If you wish to install watermark Check Program, check [Copy Watermark Checker Program to Destination Folder].

You may save as many frames as the disk allows but you do not need to install Watermark Checker Program more then once

### [JPEG Backup]

- > This function is used to backup a frame (image), not video data.
- > When in search mode, select a frame to backup by clicking on the corresponding channel view.
- > Click on and choose "JPEG Backup" option
- > Under BackupMedia type out the path of where you want the jpeg stored or click select media to browse windows for a place to store the image
- > Click [Backup]. The "Watermark Checker Copy" box will appear as follows.

age sett	up	
OSD -		
	Watermark	
	Frame Information	
Galei		
	Lopy watermark Lhecker Program to destination rolder	

## 4.16 Search Mode/Backup Select Media

[Select Media]

This button brings up the windows browser to chose where you wish to store the backup data.

Save As					? 🗙
Save in:	📋 My Document	ts	-	+ 🗈 💣 🎟-	
My Recent Documents Desktop	Hy Music My Pictures My Received Fi Quick Help Trial Trunk Visual Studio 20	les I DOS			
My Documents					
My Computer					
<b></b>	File name:			•	Save
My Network Places	Save as type:	AVI Files		•	Cancel

This Window will appear when Select Media is clicked. It is used to select a path to store the backup data.

## 4.17 Watermark Check

e Watermark Check Program	To run Wat the backup	ermark Check program, double-click 'WMChecker.exe' medium. The following window will appear.
A:\20020101-11-103314 2.jpg		Open 🔗 🗙
Water Mark <u>C</u> heck		Look in: 🔄 3½ Floppy (A:)
Source Mark :	To check an image, click [File Open] and open the	20020101-11-103314 2.jpg 20020101-11-104809 3.jpg
Result Mark :	image you wish to check.	
		File name: Open
		Files of type: Bitmap File(".bmp), Jpeg File(".jpg;".jpeg) Cancel
Exit		

- > Click [WaterMark Check] to verify the image.
- > After verification is completed, the results will be displayed as shown below.

Waterma	rk Check Program	×
	File <u>O</u> pen	
a:\20010	804-03-095559 2.bmp	
[	Water Mark <u>C</u> heck	
Source M	lark :	
8381897	F7D857A7C*************	
Result M	ark :	
D3E8E6	523DFC2833***************	
	Watermark Corrupted!!	
	E⊻it	

Corrupt (modified) image.

Watermar	k Check Program	
į.	File <u>O</u> pen	
a:\20020	101-11-103314 2.jpg	
[	Water Mark <u>C</u> heck	
Source M	lark :	
D465F43	D7EF0788F******************	
Result M	ark :	
D465F43	D7EF0788F*********************	
	Watermark Appro∨ed‼	
	E _X it	

Approved (authentic) image.

#### **Time Backup** 4.18



#### [Time Backup] 1

> Select Time Backup when you want to save large amounts of recorded data for future review on a remote computer with the "Center" software installed.

(An 'AVI' backup generates much larger file sizes making it impractical for large backups.)

> Time backup has no limitation on the length of time you can select. The only limitation is the amount of backup storage space you have available on disk.

### [Date/Time]

Select the start and the end time of backup data. Date and time has to be set before you current time. In other words, you can' backup video data "in the future".

#### [Calculate size]

3

When you have entered your Start and End times, click on the Calculate Size button to estimate the amount of disk space needed to create the backup. Make sure you have sufficient disk space to record the backup before proceeding.

A standard CD-R or CD-RW disk will hold up to 700MB of information. You may be able to backup less than a day or more than a week onto a single disk depending upon your camera image quality and resolution settings, and how much motion each camera records. Use the Calculate Size button to determine how much time you can save to a disk.

> Important! Do not backup data to the 'C' drive. Backing up to the 'C' drive

can interfere with the operation of the DVR.

[Backup Media] Select a medium to backup to.

You can store the media anywhere there is enough allocated space.

Backup	
C JPEG Backup © Time backup	C AVI backup C E-mail backup
Date/Time Start Friday , April 20, 2007 V 1:36:00 PM	BackupMedia Selected media Select media
Friday     April     20, 2007       1:37:00 PM     Image: Calculate Size	Option     Delete old data when free space     insufficient     Priority     Option     Backup after precedent backup
Camera POSITION1 POSITION2 POSITION5 POSITION6 POSITION9 POSITION10 POSITION13 POSITION14	Position3     Position4     Position7     Position8     Position11     Position12     Position15     Position16
Select Compressor : [Camera No.]	DivX® 6.0 Codec Camera Name] [Date] [Time] Left, Top Dackup Cancel

# [Option]

(5)

[Delete old data when free space is insufficient].

This option will delete any old data on the selected medium when there is not enough storage space or backup.

# 6 [Priority]

Set backup's priority when other backups are scheduled. Setting the option to Backup after precedent backup will place the backup in the queue. Backup after current backup will ignore the queue.

# [Backup]

Press [Backup] to start backing up.

#### 4.19 **AVI Backup**



Select AVI backup when you have isolated a short event you wish to save. AVI backups generate large file sizes and are not suitable for backing up entire days of data.

An AVI backup file may be played on any computer with Windows Media Player or similar viewing software.

#### [AVI backup] $\mathbf{T}$

Select this backup mode when you need to backup video data in MS WindowsAVI format. Audiodata can be backedup alongsidewithvideodata.



### [Date/Time]

Select the start and the end time of backup data. D and time has to be set before you current time. In ( words you can't backup video data "in the future".

# 3

[Backup Media]

Select a medium to backup to. You can store the data anywhere there is enough space allocated.

[Split by]  $(\mathbf{4})$ 

When creating a backup in AVI format, you can split the resulted file by time or size.



Backup X Type © JPEG Backup © Time backup © AVI backup © E-mail backup	<b>5</b> [Camera] Select the camera number to create the AVI backup
Date/Time         Stat         Friday       April         1:36:00 PM         End         Friday       April         20,2007         1:37:00 PM         Split by         1M         Scamera         Camera         Positions         Positions <td><ul> <li>For AVI backup, it is not necessarily to select all cameras like in Time Backup. Selection one or few cameras to backup from is possible.</li> <li>              Select Compressor]             Select the codec for the AVI backup.      </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec</li></ul></td>	<ul> <li>For AVI backup, it is not necessarily to select all cameras like in Time Backup. Selection one or few cameras to backup from is possible.</li> <li>              Select Compressor]             Select the codec for the AVI backup.      </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec for the AVI backup.         </li> <li>             Select the codec</li></ul>
<ul> <li>Select Position] This option allows you to select the position of the caption information for the AVI backup.</li> <li>You can select from 9 different options.</li> </ul>	<ul> <li>✓ Left, Top</li> <li>Left, Middle</li> <li>Left, Bottom</li> <li>Center, Top</li> <li>Center, Middle</li> <li>Center, Bottom</li> <li>Right, Top</li> <li>Right, Middle</li> <li>Right, Bottom</li> </ul>

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#### **Email Backup** 4.20

Backup		
Туре		0
C JPEG Backup C	Time backup	O AVI backup 💿 E-mail backup
Quate/Time		5ail Setting
Start		Recipients List
Friday , April	20, 2007 💌	
1:36:00 PM	•	DEL
End		
Friday , April	20, 2007 👻	
1:37:00 PM		
<u>(</u> )	<u> </u>	Mail Server
Still Image backup		Sender
		Mail Subject
Camera		
	POSITION2	
POSITION5	POSITION6	POSITION7 POSITION8
POSITIONS E	POSITION10	POSITION11 POSITION12
POSITION13	POSITION14	POSITION15 POSITION16
Select Compressor :		DivX® 6.0 Codec
AVI Caption :	[Camera No.] [	Camera Name] [Date] [Time] Left, Top
		Backup Cancel

The e-mail backup function is used to send the backup to designated e-mail account(s). E-Mail backup can backup 1 minute video data in MPEG format or a single frame (image) in JPEG format.

#### [E-mail Backup] $\mathbf{1}$

Select this backup mode when you need to send backup video date by e-mail.



#### [Date/Time]

Select the starting time to backup data. The starting time must be earlier than the current time. In other words, you can't backup data "in future".

# [Still Image Backup]

Backup the current displayed frame in JPEG format. This option is available only when a single frame is displayed.

# 4

## [AVI Backup]

Select this option to backup one-minute video data (starting time is specified is date/time in AVI format.



### [Mail Setting]

- > [Recipients List] shows the list of registered email accounts.
- > [Add] is to add an e-mail account to the receiver list.



- > [Delete] is to delete an email account from the list.
- > In the [Mail Server] field, enter the outgoing mail server (SMTP) address.
- > In the [sender] field, enter the sender's email account.
- > In the [Mail Subject] field, enter the mail subject.

### 4.21 QuickBurn

The Quick Burn feature allows a time frame that needs to be backed up to be selected visually from the search screen.



The area you wish to backup should now be shaded blue and the backup button should turn red .

	2007	.04.20	00	01	02	03	04	05	06	07	80	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	POSI	TION1 (1)														ii										
	POSI	TION2 (2)																								
	POSI	TION3 (3)																								
	POSI	TION4 (4)																								
	POSI	TION5 (5)																								
6	POSI	TIONG (6)																								
[				1		1	1			_		_														

Click the [Quickburn] button and the backup menu will appear. Most settings will be preset and locked in order to Backup the data that was already selected. Simply choose between Time Backup and AVI backup and specify a file path to store the data in and then click [Backup]

# 4.22 Common Backup Options

Type C Floppy backup G	Time backup	C AVI backup	C E-mail backup
Date/Time		BackupMedia	
Start	(	D Selected media	
Tuesday , May	18,2004 💌		
3.32.00 PM		Se	elect media
1 0.02.00114	-	Formet CDB/CC	
End			
Tuesday . May	18.2004 👻	Aption	
			ata when free space
1 3:33:00 PM		Insuncient	
Split by	[	Priority	
	Calculate 4		
414	Size	4 Backup after p	recedent backup 💌
1M 💌	Size	4 Backup after p	recedent backup 💌
TM 💌	Size	Backup after p	recedent backup 💌
TM x Cemere F Position1 F		Backup after p	recedent backup
Cemere Cemere Positioni F Positioni F		Backup after p	POSITIONA
Camera Camera Positions Positions Positions		Backup after p	POSITIONA POSITIONA POSITIONA POSITIONA
Cemere Cemere Positiona Positiona Positiona Positiona C	Positions Positions Positions Positions	Backup after p     Backup after p     Position3     Position7     Position7     Position11     Position15	POSITIONA POSITIONA POSITIONA POSITIONIC POSITIONIC
Cemere Cemere POSITION1 POSITION5 POSITION9 POSITION13 Celeot Compressor :	POSITION2 POSITION2 POSITION5 POSITION10 POSITION14	Backup after p POSITION3 POSITION7 POSITION11 POSITION15	POSITIONA POSITIONA POSITIONA POSITIONA POSITIONA POSITIONA POSITIONA POSITIONA POSITIONA POSITIONA
Cemere: POSITION1 F POSITION5 F POSITION9 F POSITION9 F elect Concressor : VI Captor:	Positions Positions Positions Positionta Positionta M	Backup after p     Backup after p     Backup after p     POSTION7     POSTION7     POSTION7     POSTION7     POSTION15     crossoft windows Med     cansto None[]Date][Date][	PERFORMENT POSITIONA POSITIONE POSI
Cemere Cemere POSITION1 POSITION5 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITION3 POSITI	POSITION2 POSITIONS POSITIONS POSITION10 POSITION14 M [Commo No ][0	Backup after p     Backup after p     POSITION3     POSITION7     POSITION7     POSITION11     POSITION15     icrosoft Windows Med     amena Name] [Divis](	C POSITIONA  POSITIONA  POSITIONE  POSITIONE  Video S  Time]  Left. Top

# [Backup Media]

Click [select media] to change media used for backup.

The DVR can use the following media:

- > Hard Disk Drive
- > CD-ROM
- > Portable Drive
- > Network Drive
- > Remote IP Address
- >

# [InCD Eject]

InCD is a program developed by Ahead software which formats CD-R and CD-RW. Clicking [InCD Eject] will eject CD-ROM drive.



[Delete old data when free space is insufficient.

If there's not enough space to create a backup, the system will automatically delete old data in the backup medium in order to create enough free space.



Priority is only needed for backup schedule.

### [Format CDR/CD-RW]

When choosing CD-ROM as media, you have the option of formatting CDs. Formatting a CD-R will delete any data stored on the CD, making it reusable. Formatting CD-RW will enable Direct CD feature, which allows you to move, delete, and copy data onto a CD in a way similar to a floppy disk.

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Endnotes 2... (after index)

